

# DEPARTMENT OF THE AIR FORCE

AD-A220 065

## JUSTIFICATION OF FISCAL YEAR 1991 BUDGET ESTIMATES

SUBMITTED TO CONGRESS JANUARY 1990

DTIC

ELECTE

APR 0 4 1990

**S D**

cc



DISTRIBUTION STATEMENT A

Approved for public release;  
Distribution Unlimited

Operation and Maintenance, Air Force  
Volume II

00 04 02 117

OPERATION AND MAINTENANCE, AIR FORCE JUSTIFICATION BOOK  
VOLUME II - DATA BOOK FOR FY 1991

TABLE OF CONTENTS

	<u>PAGE</u>
Summary of Price and Program Changes.....	1
Summary of Increases and Decreases.....	7
Audiovisual Services.....	13
Civilian Personnel Budget Calculations.....	15
Depot Level Maintenance.....	24
Headquarters Operations and Administration.....	29
Summary of Legislative Activities.....	35
Maintenance of Real Property Facilities.....	44
Manpower Changes in End Strength.....	45
Military Bands.....	48
Appropriated Fund Support of Morale, Welfare and Recreation Activities.....	50
Public Affairs.....	60
Reimbursable Program.....	61
Summary of Contractors Support by Weapon System.....	64
O&M and Industrial Fund Contracts Over \$50 Million.....	106

OPERATION AND MAINTENANCE, AIR FORCE JUSTIFICATION BOOK  
VOLUME II - DATA BOOK FOR FY 1991

TABLE OF CONTENTS

	<u>PAGE</u>
Claims.....	114
New Programs.....	115
Summary of Total Quality Management Resources.....	116
Backlog of Maintenance and Repair of Real Property.....	117
RPM and Minor Construction Projects (Historic Housing Costs).....	121

OPERATION AND MAINTENANCE - AIR FORCE  
SUMMARY OF PRICE AND PROGRAM CHANGES

FY 1990  
(\$ in Thousands)

OPERATION AND MAINTENANCE - AF

CIVILIAN PERSONNEL COMPENSATION

101 EXECUTIVE GENERAL AND SPECIAL SCHEDULES

	FY 89 PROGRAM	FOR CUR IMPACT	PRICE CHANGE PERCENT	PRICE CHANGE IMPACT	PROGRAM CHANGE	FY 90 PROGRAM
103 WAGE BOARD	3499700	0	5.6%	195983	55217	3750900
104 FOREIGN NATIONAL DIRECT HIRE (FNDH)	830073	0	5.9%	48974	28907	907954
105 SEPARATION LIABILITY (FNDH)	84718	2538	7.3%	6184	-21146	72294
110 UNEMPLOYMENT COMP	5189	0	2.0%	102	-544	4747
199 ** TOTAL CIVILIAN PERSONNEL COMPENSATION **	12647	0	0.0%	0	-765	11882
	4432327	2538	5.7%	251243	61669	4747777

TRAVEL

301 PER DIEM	361040	-31	0.0%	0	-92879	268130
302 OTHER TRAVEL COSTS	231364	-529	4.1%	9414	-35610	204639
303 MAC PASSENGER	36135	0	3.9%	1409	-16934	20610
307 LEASED VEHICLES	23223	-33	4.1%	952	-2292	21850
399 **TOTAL TRAVEL **	651762	-593	1.8%	11775	-147715	515229

STOCK FUND PURCHASES SUPPLIES/MATERIALS

401 DFSC FUEL	1711540	0	-9.9%	-169621	-514	1541405
402 SERVICE STOCK FUND FUEL	31813	0	-23.8%	-7572	-15967	8274
411 ARMY MANAGED SUPPLIES/MATERIALS	27698	0	4.5%	1246	-1337	27607
412 NAVY MANAGED SUPPLIES/MATERIALS	18457	0	-2.0%	-369	294	18382
414 AIR FORCE MANAGED SUPPLIES/MATERIALS	306552	0	6.3%	19301	47503	373356
415 DLA MANAGED SUPPLIES/MATERIALS	519655	0	1.8%	9319	-22657	506317
416 GSA MANAGED SUPPLIES/MATERIALS	101711	-704	4.1%	4170	-3867	101310
417 LOCALLY PROCURED STOCK FUND SUPPL/MAT	630385	0	5.6%	35515	-53043	612857
499 ** TOTAL STOCK FUND SUPPLIES/MATERIALS **	3347811	-704	-3.2%	-108011	-49588	3189508

STOCK FUND PURCHASES EQUIPMENT

502 ARMY STOCK FUND EQUIPMENT	7965	0	4.5%	358	-3131	5192
503 NAVY STOCK FUND EQUIPMENT	5296	0	-2.0%	-105	-1749	3442
505 LOCALLY PROCURED STOCK FUND EQUIP	145206	-6	4.9%	7089	-43936	108353
506 DLA STOCK FUND EQUIPMENT	123023	0	1.8%	2214	-34735	90502
507 GSA STOCK FUND EQUIPMENT	29458	-45	4.1%	1207	-11510	19110
599 ** TOTAL STOCK FUND EQUIPMENT **	310948	-51	3.5%	10763	-95061	226599

OPERATION AND MAINTENANCE - AIR FORCE  
SUMMARY OF PRICE AND PROGRAM CHANGES  
FY 1990  
(\$ in Thousands)

	FY 89 PROGRAM	FOR CUR IMPACT	PRICE CHANGE PERCENT	PRICE CHANGE IMPACT	PROGRAM CHANGE	FY 90 PROGRAM
<b>INDUSTRIAL FUND PURCHASES (EX. TRAN SP)</b>						
651 TRAINING	252476	0	2.9%	7321	-11738	248059
653 OTHER MAC PURCHASES	34957	0	4.1%	1433	11956	48346
661 DEPOT MAINTENANCE - ORGANIC	1717799	0	5.4%	92074	-372757	1437116
662 DEPOT MAINTENANCE - CONTRACT (AF)	977935	0	3.6%	35207	-3299	1009843
663 LAUNDRY & DRY CLEANING (IF)	2786	0	3.7%	103	139	3028
664 UTILITIES (IF) SARPMA	27723	0	4.1%	1136	-28859	0
665 PUBLIC WORKS - SARPMA	63308	0	4.1%	2595	-65903	0
666 AEROSPACE MAINT & REGEN CTR(AFARC)	11594	0	9.0%	1043	-1060	11577
671 COMMUNICATION SERVICES(DEFENSE)	439775	0	3.6%	15831	-17667	437939
691 IF PASS THROUGH	-2300	0	0.0%	124028	0	121728
699 ** TOTAL AF INDUSTRIAL FUND PURCHASES **	3526053	0	8.0%	280771	-489188	3317636
<b>TRANSPORTATION</b>						
701 MAC CARGO (IF)	161388	0	-0.7%	-1129	4286	164545
702 MAC SAAM (IF)	90200	0	-0.7%	-631	-38656	50913
711 MSC CARGO (IF)	124124	0	5.9%	7262	-7623	123763
721 MTMC (PORT HANDLING-IF)	24041	-195	11.8%	2836	-2928	23754
731 COMMERCIAL AIR	31656	-1358	4.1%	1294	39490	71082
751 COMMERCIAL LAND	116999	-1626	4.1%	4785	-7457	112701
761 OTHER TRANSPORTATION	69465	-57	4.1%	2845	50318	122571
799 ** TOTAL TRANSPORTATION **	617873	-3236	2.8%	17262	37430	669329
<b>OTHER PURCHASES</b>						
901 FOREIGN NATIONAL INDIRECT HIRE (FNIDH)	231476	-12328	3.6%	8333	50136	277617
902 SEPARATION LIABILITY (FNH)	6058	-16	3.6%	218	1950	8210
912 RENTAL PAYMENTS TO GSA (SLUC)	23825	0	4.1%	977	-768	24034
913 PURCHASED UTILITIES (NON-IF)	429588	-3473	4.1%	17614	35376	479105
914 PURCHASED COMMUNICATIONS (NON-IF)	135993	-624	4.1%	5542	3470	144381
915 RENTS (NON-GSA)	86492	-470	4.1%	3533	665	90220
916 DISABILITY COMPENSATION	85420	0	0.0%	0	-27495	57925
917 POSTAL SERVICES (U.S.P.S.)	34774	0	0.0%	0	3460	38234
920 SUPPLIES & MATERIALS (NON-SF)	323902	-148	4.1%	13230	-61455	275529

OPERATION AND MAINTENANCE - AIR FORCE  
SUMMARY OF PRICE AND PROGRAM CHANGES  
FY 1990  
(\$ in Thousands)

	FY 89 PROGRAM IMPACT	FOR CUR IMPACT	PRICE CHANGE PERCENT	PRICE CHANGE IMPACT	PROGRAM CHANGE	FY 90 PROGRAM
921 PRINTING & REPRODUCTION	46511	-17	4.1%	1900	-7441	40953
922 EQUIPMENT MAINTENANCE BY CONTRACT	708149	-2721	4.1%	29016	-7251	727193
923 FACILITY MAINTENANCE BY CONTRACT	1007357	-11565	4.1%	41283	-245243	791832
925 EQUIPMENT (NON-SF)	150112	-62	4.1%	6149	-103550	52649
926 OTHER OVERSEAS PURCHASES	143127	49176	22.7%	32489	-87652	137140
927 AIR DEFENSE CONTRACTS & SPACE SUPPORT (AF)	2998	0	4.1%	122	13903	17023
930 OTHER DEPOT MAINT (NON-IF)	912089	0	4.1%	37395	-134741	814743
931 CONTRACT CONSULTANTS	400	0	4.1%	16	9	425
932 CONTRACT STUDIES & ANALYSIS	18300	0	4.1%	750	1350	20400
933 CONTRACT PROFESSIONAL & MGMT SVC	34400	0	4.1%	1410	2440	38250
934 CONTRACT ENG TECH+SVC	23300	0	4.1%	955	1670	25925
985 DOD COUNTER-DRUG ACTIVITIES (offset)	0	0	4.1%	0	0	0
989 OTHER CONTRACTS	3504197	-22303	4.1%	143672	273600	3899166
991 FOREIGN CURRENCY VARIANCE	57465	-57465	0.0%	0	0	0
992 TUITION ASSISTANCE	36409	0	7.5%	2731	12109	51249
993 ROTC SCHOLARSHIPS	30979	0	7.5%	2323	3511	36813
994 HPSP SCHOLARSHIPS	16558	0	7.5%	1242	-1442	16358
995 HEALTH CARE	934062	-24	8.7%	81256	-61323	953971
996 ADVERTISING	12841	0	6.5%	835	-1504	12172
FR COSTS	179234	200	4.1%	7342	-96758	90018
999 *** TOTAL OTHER PURCHASES **	9176016	-61840	4.8%	440333	-432974	9121535
9999 *** TOTAL O&M PROGRAM ***	22062790	-63886	4.1%	904136	-1115427	21787613

STATEMENT "A" per Martin Fritsch  
Office of the Air Force, Pentagon/  
SAF/FNBMC  
TELECON  
Secretary of the  
4/3/90

VG

3

Accession For	
NTIS	CRA&I
DTIC	TAB
Unannounced	
Justification	
By <i>Per call</i>	
Distribution /	
Availability Codes	
Dist	Avail and/or Special
A-1	

OPERATION AND MAINTENANCE - AIR FORCE  
SUMMARY OF PRICE AND PROGRAM CHANGES  
FY 1991  
(\$ in Thousands)

OPERATION AND MAINTENANCE - AF

CIVILIAN PERSONNEL COMPENSATION

	FY90 PROGRAM	FOR CUR IMPACT	PRICE CHANGE PERCENT	PRICE CHANGE IMPACT	PROGRAM CHANGE	FY 91 PROGRAM
101 EXECUTIVE GENERAL AND SPECIAL SCHEDULES	3750900	0	4.2%	157537	-616185	3292252
103 WAGE BOARD	907954	0	4.2%	38134	-149079	797009
104 FOREIGN NATIONAL DIRECT HIRE (FNDH)	72294	0	3.5%	2530	15528	90352
105 SEPARATION LIABILITY (FNDH)	4747	0	3.0%	142	629	5518
110 UNEMPLOYMENT COMP	11882	0	0.0%	0	234	12116
199 ** TOTAL CIVILIAN PERSONNEL COMPENSATION **	4747777	0	4.2%	198343	-748873	4197247

TRAVEL

301 PER DIEM	268130	0	0.0%	0	2424	270554
302 OTHER TRAVEL COSTS	204639	0	4.1%	8352	-6338	206653
303 MAC PASSENGER	20610	0	4.9%	1009	-1310	20309
307 LEASED VEHICLES	21850	0	4.1%	890	360	23100
399 **TOTAL TRAVEL **	515229	0	2.0%	10251	-4864	520616

STOCK FUND PURCHASES SUPPLIES/MATERIALS

401 DFSC FUEL	1541405	0	15.5%	238917	-72670	1707652
402 SERVICE STOCK FUND FUEL	8274	0	5.9%	488	784	9546
411 ARMY MANAGED SUPPLIES/MATERIALS	27607	0	7.6%	2098	2162	31867
412 NAVY MANAGED SUPPLIES/MATERIALS	18382	0	14.9%	2738	89	21209
414 AIR FORCE MANAGED SUPPLIES/MATERIALS	373356	0	8.8%	32969	-56176	350149
415 DLA MANAGED SUPPLIES/MATERIALS	506317	0	22.5%	113881	-22460	597738
416 GSA MANAGED SUPPLIES/MATERIALS	101310	0	4.1%	4115	11859	117284
417 LOCALLY PROCURED STOCK FUND SUPPL/MAT	612857	0	5.4%	32896	146252	792005
499 ** TOTAL STOCK FUND SUPPLIES/MATERIALS **	3189508	0	13.4%	428102	9840	3627450

STOCK FUND PURCHASES EQUIPMENT

502 ARMY STOCK FUND EQUIPMENT	5192	0	7.6%	394	226	5812
503 NAVY STOCK FUND EQUIPMENT	3442	0	14.9%	512	-102	3852
505 LOCALLY PROCURED STOCK FUND EQUIP	108353	0	5.2%	5624	6597	120574
506 DLA STOCK FUND EQUIPMENT	90502	0	22.5%	20362	-10000	100864
507 GSA STOCK FUND EQUIPMENT	19110	0	4.1%	783	1787	21680
599 ** TOTAL STOCK FUND EQUIPMENT **	226599	0	12.2%	27675	-1492	252782

OPERATION AND MAINTENANCE - AIR FORCE  
SUMMARY OF PRICE AND PROGRAM CHANGES

FY 1991  
(\$ in Thousands)

	FY90 PROGRAM	FOR CUR IMPACT	PRICE CHANGE PERCENT	PRICE CHANGE IMPACT	PROGRAM CHANGE	FY 91 PROGRAM
<b>INDUSTRIAL FUND PURCHASES (EX. TRAN SP)</b>						
651 TRAINING	248059	0	7.3%	18108	-4254	261913
653 OTHER MAC PURCHASES	48346	0	4.1%	1983	5278	55607
661 DEPOT MAINTENANCE - ORGANIC	1437116	0	4.2%	60358	-191400	1306074
662 DEPOT MAINTENANCE - CONTRACT (AF)	1009843	0	4.2%	42413	-243609	808647
663 LAUNDRY & DRY CLEANING (IF)	3028	0	-0.5%	-15	344	3357
664 UTILITIES (IF) SARPMA	0	0	0.0%	0	0	0
665 PUBLIC WORKS - SARPMA	0	0	0.0%	0	0	0
666 AEROSPACE MAINT & REGEN CTR(AFARC)	11577	0	4.2%	486	1716	13779
671 COMMUNICATION SERVICES(DEFENSE)	437939	0	2.8%	12262	9725	459926
691 IF PASS THROUGH	121728	0	0.0%	-121728	0	0
699 ** TOTAL AF INDUSTRIAL FUND PURCHASES **	3317636	0	0.4%	13867	-422200	2909303
<b>TRANSPORTATION</b>						
701 MAC CARGO (IF)	164545	0	4.8%	7898	25315	197758
702 MAC SAAM (IF)	50913	0	6.3%	3207	-6515	47605
711 MSC CARGO (IF)	123763	0	-5.0%	-6188	-9967	107608
721 MTMC (PORT HANDLING-IF)	23754	0	0.5%	120	1907	25781
731 COMMERCIAL AIR	71082	0	4.1%	2911	8062	82055
751 COMMERCIAL LAND	112701	0	4.1%	4608	-19793	97516
761 OTHER TRANSPORTATION	122571	0	4.1%	5022	-202	127391
799 ** TOTAL TRANSPORTATION **	669329	0	2.6%	17578	-1193	685714
<b>OTHER PURCHASES</b>						
901 FOREIGN NATIONAL INDIRECT HIRE (FNIDH)	277617	0	3.5%	9717	1615	288949
902 SEPARATION LIABILITY (FNH)	8210	0	3.0%	247	-103	8354
912 RENTAL PAYMENTS TO GSA (SLUC)	24034	0	4.1%	985	607	25626
913 PURCHASED UTILITIES (NON-IF)	479105	0	4.1%	19637	10247	508989
914 PURCHASED COMMUNICATIONS (NON-IF)	144381	0	4.1%	5915	11964	162260
915 RENTS (NON-GSA)	90220	0	4.1%	3685	13349	107254
916 DISABILITY COMPENSATION	57925	0	0.0%	0	16024	73949
917 POSTAL SERVICES (U.S.P.S.)	38234	0	0.0%	0	5303	43537
920 SUPPLIES & MATERIALS (NON-SF)	275529	0	4.1%	11275	1621	288425



OPERATION AND MAINTENANCE - AIR FORCE  
SUMMARY OF PRICE AND PROGRAM CHANGES  
FY 1991  
(\$ in Thousands)

	FY90 PROGRAM	FOR CUR IMPACT	PRICE CHANGE PERCENT	PRICE CHANGE IMPACT	PROGRAM CHANGE	FY 91 PROGRAM
921 PRINTING & REPRODUCTION	40953	0	4.1%	1673	-1223	41403
922 EQUIPMENT MAINTENANCE BY CONTRACT	727193	0	4.1%	29792	58779	815764
923 FACILITY MAINTENANCE BY CONTRACT	791832	0	4.1%	32461	49881	874174
925 EQUIPMENT (NON-SF)	52649	0	4.1%	2156	-932	53873
926 OTHER OVERSEAS PURCHASES	137140	0	22.7%	31132	-20935	147337
927 AIR DEFENSE CONTRACTS & SPACE SUPPORT (AF)	17023	0	4.1%	699	1005	18727
930 OTHER DEPOT MAINT (NON-IF)	814743	0	4.1%	33405	30588	878736
931 CONTRACT CONSULTANTS	425	0	4.1%	17	-36	406
932 CONTRACT STUDIES & ANALYSIS	20400	0	4.1%	836	-1748	19488
933 CONTRACT PROFESSIONAL & MGMT SVC	38250	0	4.1%	1568	-3278	36540
934 CONTRACT ENG TECH+SVC	25925	0	4.1%	1062	-2221	24766
985 DOD COUNTER-DRUG ACTIVITIES (offset)	0	0	4.1%	0	-24800	-24800
989 OTHER CONTRACTS	3899166	0	4.1%	159865	17147	4076178
991 FOREIGN CURRENCY VARIANCE	0	0	0.0%	0	0	0
992 TUITION ASSISTANCE	51249	0	7.5%	3847	4979	60075
993 ROTC SCHOLARSHIPS	36813	0	7.5%	2761	1989	41563
994 HPSP SCHOLARSHIPS	16358	0	7.5%	1227	764	18349
995 HEALTH CARE	953971	0	8.1%	77271	124025	1155267
996 ADVERTISING	12172	0	6.5%	791	175	13138
998 OTHER COSTS	90018	0	4.1%	3689	3754	97461
999 ** TOTAL OTHER PURCHASES **	9121535	0	4.8%	435713	298540	9855788
9999 *** TOTAL O&M PROGRAM ***	21787613	0	5.2%	1131529	-870242	22048900

DEPARTMENT OF THE AIR FORCE  
SCHEDULE OF INCREASES AND DECREASES  
(\$ in Thousands)

Appropriation: Operation and Maintenance, AF		Total
1.	FY 1990 President's Budget Request (Apr Rev)	22,812,200
2.	Congressional Adjustments	(1,064,735)
3.	FY 1990 Appropriation Enacted	21,747,465
4.	Functional Program Transfers	27,963
a.	Transfers In	385,347
b.	Transfers Out	(357,384)
5.	Price Growth	180,154
6.	Program Increases	121,567
7.	Program Decreases	(289,536)
8.	FY 1990 Current Estimate	21,787,613
9.	Functional Program Transfer	(1,477,400)
10.	Transfers In	104,700
11.	Transfers Out	(1,582,100)

12. Increases:

a. Annualization of FY 1990 Pay Raises	53,734
b. Annualization of New FY 1989 Programs	
c. One-Time FY 1990 Costs	25,355
Aircraft Operations	0
Ships Operation	0
Depot Maintenance/Modernization	0
Land Forces Operations	0
Supply Operations	0
Training	0
Real Property Maintenance	5,344
Second Destination Transportation	0
Other	20,011
d. Program Growth in FY 1990	1,409,944
Aircraft Operations	32,930
Ships Operations	0
Depot Maintenance/Modernization	125,270
Land Forces Operations	0
Supply Operations	13,971
Training	26,745
Real Property Maintenance	84,151
Second Destination Transportation	23,272
Other:	1,103,605
Peacekeeper Squadrons	8,211
Minuteman Squadrons	5,392
B1-B	22,046
Over-the-Horizon Radars	17,986
North Atlantic Defense System	5,033
Caribbean Basin Radar Network	10,311
Pacer Frontier	9,295
SPACETRACK	2,642
Rapier	2,411
B-2 Program Support	7,937
B-52/B-52 Conventional	8,887
KC-135	2,627
SPADOC	4,718

Advanced Cruise Missile	4,223
North Warning System	2,724
SCIS	2,415
Flying Hour Costs	46,300
Contractor Logistics Support	18,872
Tactical Airborne C3	1,883
Tactical Air Control System	1,814
Civilian Workyear Utilization Rate	98,215
Wartime Host Nation Support	9,890
Family Support Centers	4,568
Communications	72,059
ADP Contractual Services	16,216
WWMCCS	10,455
Engineering and Installation	9,173
Tactical Cryptologic Activities	2,552
Electromagnetic Compatibility Analysis Ctr	3,329
Satellite Installation/Maintenance/Support	30,854
AF Global Weather Service	12,291
Consolidated Space Operations Center (CSOC)	1,606
Consolidated Space Test Center (CSTC)	3,304
NAVSTAR Global Positioning System (GPS)	1,401
Security Investigation Activities	6,070
Communications Security and Intel Activities	25,049
Contractual Services	15,682
Contract Conversions	2,461
Supplies and Equipment	19,584
Base Operations	147,945
Range Support Operations	18,009
Morale, Welfare and Recreation (MWR)	47,131
Transportation	23,272
Commissary Operations	15,582
Managed Health Care Initiatives	7,630
CHAMPUS	111,960
Facility Maintenance by Contract	3,748
Workload and Workload Intensity Increase	61,910
Military to Civilian Conversions	16,831
Sustaining Engineering	14,923
Classified Program	15,950
Other	26,862

Postal	2,837
DMRD Efficiencies	58,529
e. New FY 1991 Program	1,884
Aircraft Operations	0
Ships Operations	0
Depot Maintenance/Modernization	0
Land Forces Operations	0
Supply Operations	0
Training	0
Real Property Maintenance	0
Second Destination Transportation	0
Other:	0
Advanced Strategic Programs (Classified)	0
Copper Coast (Classified)	0
Have Flag (Classified)	0
Employee Assistance Program (EAP)	1,767
Joint Health Care Mgt Eng Team (JHMET)	117
f. Inflation	1,090,547
13. Total Increases	2,581,464
14. Decreases	
a. One-time FY 1990 Costs	(8,876)
Aircraft Operations	0
Ships Operations	0
Depot Maintenance/Modernization	0
Land Forces Operations	0
Supply Operations	0
Training	0
Real Property Maintenance	0
Second Destination Transportation	0
Other	(8,876)

b.	Annualization of FY 1989 Program Decreases	0
	Aircraft Operations	0
	Ships Operations	0
	Depot Maintenance/Modernization	0
	Land Forces Operations	0
	Supply Operations	0
	Training	0
	Real Property Maintenance	0
	Second Destination Transportation	0
	Other	0
c.	Program Decreases in FY 1990	(833,901)
	Aircraft Operations	(152,992)
	Ships Operations	0
	Depot Maintenance/Modernization	(219,306)
	Land Forces Operations	0
	Supply Operations	(51,147)
	Training	(3,772)
	Real Property Maintenance	0
	Second Destination Transportation	0
	Other:	
	DMRD Efficiencies	(406,684)
	Minuteman Squadrons	(138,089)
	Base Closure	(15,464)
	ADP Equipment Maintenance	(19,188)
	Reduced Force Structure	(7,798)
	Flying Hour Program	(13,756)
	DEW Radar Stations-Greenland	(21,541)
	Contract Conversions	(17,602)
	BMEWS	(8,842)
	War Planning ADP-SAC	(5,901)
	Pacer Frontier	(5,783)
	Air Launched Cruise Missile	(5,567)
	Cadin-Pinetree	(2,752)
	SLBM Radar Warning System	(14,882)
	DSP	(5,460)
	Management Headquarters	(2,399)
	Report of Audit	(1,247)
		(1,230)

Productivity Investment	(14,047)
Environmental Compliance	(38,523)
Civil Air Patrol	(1,680)
Ground Launched Cruise Missile Drawdown	(10,000)
AWACS Support	(1,792)
Chemical/Biological Defense Program	(3,422)
Audiovisual	(799)
Travel	(1,424)
AF Integrated Readiness System	(3,251)
Expedient Hardening-Air Base Operability	(1,895)
Transportation	(2,518)
Support and Base Communications	(2,441)
Video Teleconferencing Efficiencies	(3,533)
Tactical Improvement Program	(2,197)
Antiterrorism	(2,151)
EDS/PDS	(227)
Commissary Operations	(1,059)
Civilian Workyear Reduction	(2,419)
Sustaining Engineering	(2,383)
Engine Overhauls	(2,131)
Facility Maintenance by Contract	(2,990)
Unit Cost Productivity	(7,400)
Standardized ADP Systems	(2,371)
Other	(8,530)
15. Total Decreases	(842,777)
16. FY 1991 President's Budget	22,048,900

**AUDIOVISUAL PRODUCTION**  
(Motion Media with Sound)

**DOD COMPONENT      Air Force**

<u>APPROPRIATE/FUNCTIONS</u>	<u>FY 1989</u> ((\$000)		<u>FY 1990</u> ((\$000)		<u>FY 1991</u> ((\$000)	
	<u>In-House</u>	<u>Contract</u>	<u>In-House</u>	<u>Contract</u>	<u>In-House</u>	<u>Contract</u>
<u>Military Personnel</u>						
<u>AV Production</u>	\$6,457		\$6,435		\$6,767	
Motion Picture and Television with Sound						
<u>Operation &amp; Maintenance</u>						
<u>AV Production</u>	3,502	0	3,307	0	3,436	0
Motion Picture and Television with Sound						
<u>Other Procurement</u>						
<u>AV Equipment</u>	1,718		1,939		1,492	
<u>TOTAL</u>	11,677	0	11,681	0	11,695	0
<u>AV Production</u>						
Motion Picture and Television with Sound	9,959	0	9,742	0	10,203	0
<u>AV Equipment</u>	1,718		1,939		1,492	
<u>End Strength</u>						
<u>Military</u>						
Officer	19		19		19	
Enlisted	153		147		147	
Total	172		166		166	
<u>Civilian</u>	55		55		55	



**AUDIOVISUAL PRODUCTION**  
**(Motion Media with Sound)**  
**SUMMARY**

**DOD Component     Air Force**

**Audiovisual (AV) Production.** An AV production is the combination of motion media with sound in a self-contained, complete presentation, developed according to a plan or script for conveying information to, or communicating with, an audience. (From DODD 5040.2, Dec 7, 1987)

Audiovisual production plays an important role in Air Force wartime readiness. AV production enables the Air Force to present effective, concise, and identical information and training to large numbers of people regardless of their physical location in the world. AV production is used in training combat crews and maintenance personnel, provides cost effective AF recurring and follow-on training, and is used extensively by high level commanders to communicate to their troops throughout the command. Since 1985 AV productions have begun to merge with computer based training through the use of Interactive Video Disk (IVD) technology. IVD training is not only standardized, but is also self paced with student progress automatically recorded and quickly validated. Because IVD represents an excellent, low-cost method of simulation, Air Force personnel are receiving training via IVD productions on a ever growing number of weapon systems.

Cost savings through the use of IVD in place of traditional classroom and TDY status training are now being documented by Air Force Communications Command, Tactical Air Command, and the Strategic Air Command. Direct cost savings from using IVD productions are realized in other programs in the Air Force and are largely used to offset courseware development costs. Courseware development dollars are considered training expenditures and are not reflected in this exhibit. AV production costs in this exhibit capture direct IVD costs from the point that a script is completed to the delivery of the laser disk to the training community. Operational commands have projected a ten-fold increase in IVD courseware by FY1995.

Central funding for the Air Force Audiovisual Production Program, previously accomplished by the Government Owned Contractor Operated (GOCO) facility at Norton AFB, was eliminated in FY1989.

The Air Force Production Program has become decentralized, with "blue suit" AF production activities assuming a portion of this workload. A large backlog of AV productions has accumulated since FY1988 and future projections are for greater delays and larger backlogs as the Interactive Video Disk requirements will exceed AF capability by 1,000% in FY 1993-FY 1995.

DEPARTMENT OF THE AIR FORCE  
CIVILIAN PERSONNEL BUDGET CALCULATION  
FY 1991 PRESIDENT'S BUDGET  
FY 1989

	Full-Time Equivalent End Strength	Work Years	Compensation		Compensation		Average Compensation
			O.C. 11	O.C. 12	Total Compensation		
SUMMARY							
-----							
Direct Hire Civilians, United States:							
Classified and administrative	157,186	153,372	4,372,997	813,193	5,186,190		33,814
Wage Board	84,097	84,194	2,384,144	417,602	2,801,746		33,277
Total United States	241,283	237,566	6,757,141	1,230,795	7,987,936		33,624
Direct Hire Foreign Nationals	7,383	7,641	65,490	22,423	87,913		11,505
Total Direct Hire	248,666	245,207	6,822,631	1,253,218	8,075,849		32,935
Disadvantaged Employment		1,008	7,509	571	8,080		8,016
Indirect Hire, Foreign Nationals	11,909	12,341	282,203	0	282,203		22,867
Foreign National Separation Liability Accrual				11,592	11,592		0
Benefits for Former Employees (O.C. 13)				13,174	13,174		0
Total Civilian Personnel Costs	260,575	258,556	7,112,343	1,278,555	8,390,898		32,453

OPERATION AND MAINTENANCE, AIR FORCE

Direct Hire Civilians, United States:							
Classified and administrative	118,993	115,068	3,241,810	608,709	3,850,519		33,463
Wage Board	29,748	29,688	776,250	130,448	906,698		30,541
Total United States	148,741	144,756	4,018,060	739,157	4,757,217		32,864
Direct Hire Foreign Nationals	7,032	7,275	62,724	22,013	84,737		11,648
Total Direct Hire	155,773	152,031	4,080,784	761,170	4,841,954		31,848
Disadvantaged Employment		866	6,308	475	6,783		7,833
Indirect Hire, Foreign Nationals	11,387	11,837	271,491	0	271,491		22,936
Foreign National Separation Liability Accrual				11,247	11,247		0
Benefits for Former Employees (O.C. 13)				12,647	12,647		0
Total Civilian Personnel Costs	167,160	164,734	4,358,583	785,539	5,144,122		31,227

DEPARTMENT OF THE AIR FORCE  
CIVILIAN PERSONNEL BUDGET CALCULATION  
FY 1991 PRESIDENT'S BUDGET  
FY 1989

	Full-Time Equivalent End Strength	Work Years	Compensation		Total		Average Compensation
			O.C. 11	O.C. 12	Compensation		
<b>INDUSTRIAL FUND</b>							
Direct Hire Civilians, United States:							
Classified and administrative	11,204	11,881	334,906	57,060	391,966		32,991
Wage Board	29,608	30,025	897,585	150,260	1,047,845		34,899
Total United States	40,812	41,906	1,232,491	207,320	1,439,811		34,358
Direct Hire Foreign Nationals	350	366	2,748	405	3,153		8,615
Total Direct Hire	41,162	42,272	1,235,239	207,725	1,442,964		34,135
Disadvantaged Employment		59	398	36	434		7,356
Indirect Hire, Foreign Nationals	522	504	10712	0	10,712		21,254
Foreign National Separation Liability Accrual				345	345		0
Benefits for Former Employees (O.C. 13)				0	0		0
Total Civilian Personnel Costs	41,684	42,835	1,246,349	208,106	1,454,455		33,955

<b>NOTE</b>							
Direct Hire Civilians, United States:							
Classified and administrative	9,754	9,355	333,894	56,092	389,986		41,687
Wage Board	2,170	2,081	64,174	11,235	75,409		36,237
Total United States	11,924	11,436	398,068	67,327	465,395		40,696
Direct Hire Foreign Nationals	1	18	18	5	23		0
Total Direct Hire	11,925	11,436	398,086	67,332	465,418		40,698
Disadvantaged Employment					0		0
Indirect Hire, Foreign Nationals					0		0
Foreign National Separation Liability Accrual					0		0
Benefits for Former Employees (O.C. 13)					0		0
Total Civilian Personnel Costs	11,925	11,436	398,086	67,332	465,418		40,698

DEPARTMENT OF THE AIR FORCE  
CIVILIAN PERSONNEL BUDGET CALCULATION  
FY 1991 PRESIDENT'S BUDGET  
FY 1989

Full-Time Equivalent End Strength	Work Years	Compensation O.C. 11	Compensation O.C. 12	Total Compensation	Average Compensation
-----	-----	-----	-----	-----	-----

OPERATION AND MAINTENANCE, AIR FORCE RESERVE

Direct Hire Civilian, United States:					
Wage Board					
Total United States	7,385	7,342	194,274	234,403	31,926
Direct Hire Foreign Nationals	6,770	6,798	197,041	235,653	34,665
Total Direct Hire	14,155	14,140	391,315	470,056	33,243
Disadvantaged Employment	0	0	0	0	0
Indirect Hire, Foreign Nationals	14,155	14,140	391,315	470,056	33,243
Foreign National Separation Liability Accrual	0	72	723	777	10,792
Benefits for Former Employees (O.C. 13)	0	0	0	0	0
Total Civilian Personnel Costs	14,155	14,212	392,038	470,903	33,134

OPERATION AND MAINTENANCE, AIR NATIONAL GUARD

Direct Hire Civilian, United States:					
Wage Board					
Total United States	9,850	9,726	268,113	319,316	32,831
Direct Hire Foreign Nationals	15,801	15,602	449,094	536,141	34,364
Total Direct Hire	25,651	25,328	717,207	855,457	33,775
Disadvantaged Employment	25,651	25,328	717,207	855,457	33,775
Indirect Hire, Foreign Nationals	11	11	80	86	7,818
Foreign National Separation Liability Accrual	0	0	0	0	0
Benefits for Former Employees (O.C. 13)	0	0	0	457	0
Total Civilian Personnel Costs	25,651	25,339	717,287	856,000	33,782

DEPARTMENT OF THE AIR FORCE  
CIVILIAN PERSONNEL BUDGET CALCULATION  
FY 1991 PRESIDENT'S BUDGET  
FY 1990

	Full-Time Equivalent End Strength	Work Years	Compensation		Total Compensation	Average Compensation
			O.C. 11	O.C. 12		
SUMMARY						
-----						
Direct Hire Civilians, United States:						
Classified and administrative	159,821	154,069	4,533,216	924,680	5,477,896	35,555
Wage Board	82,155	82,381	2,377,485	442,208	2,819,693	34,227
Total United States	241,976	236,450	6,930,701	1,366,888	8,297,589	35,092
Direct Hire Foreign Nationals	6,646	6,235	55,292	21,689	76,981	12,347
Total Direct Hire	248,622	242,685	6,985,993	1,388,577	8,374,570	34,508
Disadvantaged Employment						
Indirect Hire, Foreign Nationals	13,240	12,406	329,779	0	329,779	26,582
Foreign National Separation Liability Accrual	0	0	0	14,231	14,231	0
Benefits for Former Employees (O.C. 13)	0	0	0	12,465	12,465	0
Total Civilian Personnel Costs	261,862	255,091	7,315,772	1,415,273	8,731,045	34,227
OPERATION AND MAINTENANCE, AIR FORCE						
-----						
Direct Hire Civilians, United States:						
Classified and administrative	121,963	116,627	3,408,657	713,640	4,122,297	35,346
Wage Board	30,491	29,157	791,961	150,974	942,935	32,340
Total United States	152,454	145,784	4,200,618	864,614	5,065,232	34,745
Direct Hire Foreign Nationals	6,288	5,890	52,603	21,003	73,606	12,497
Total Direct Hire	158,742	151,674	4,253,221	885,617	5,138,838	33,881
Disadvantaged Employment					0	0
Indirect Hire, Foreign Nationals	12,667	11,842	316,129	0	316,129	26,696
Foreign National Separation Liability Accrual	0	0	0	12,957	12,957	0
Benefits for Former Employees (O.C. 13)	0	0	0	11,882	11,882	0
Total Civilian Personnel Costs	171,409	163,516	4,569,350	910,456	5,479,806	33,512

DEPARTMENT OF THE AIR FORCE  
CIVILIAN PERSONNEL BUDGET CALCULATION  
FY 1991 PRESIDENT'S BUDGET  
FY 1990

Full-Time Equivalent End Strength	Work Years	Compensation O.C. 11	Compensation O.C. 12	Total Compensation	Average Compensation
--	---------------	-------------------------	-------------------------	-----------------------	-------------------------

OPERATION AND MAINTENANCE, AIR FORCE RESERVE

Direct Hire Civilian, United States:

Classified and administrative  
Wage Board

Total United States

Direct Hire Foreign Nationals

Total Direct Hire

Disadvantaged Employment

Indirect Hire, Foreign Nationals

Foreign National Separation Liability Accrual  
Benefits for Former Employees (O.C. 13)

Total Civilian Personnel Costs

7,656	7,387	201,574	44,905	246,479	33,367
7,165	6,914	208,191	44,013	252,204	36,477
14,821	14,301	409,765	88,918	498,683	34,870
14,821	14,301	409,765	88,918	498,683	0
				0	34,870
				0	0
				0	0
				0	0
14,821	14,301	409,765	104	104	0
			89,022	498,787	34,878

OPERATION AND MAINTENANCE, AIR NATIONAL GUARD

Direct Hire Civilian, United States:

Classified and administrative  
Wage Board

Total United States

Direct Hire Foreign Nationals

Total Direct Hire

Disadvantaged Employment

Indirect Hire, Foreign Nationals

Foreign National Separation Liability Accrual  
Benefits for Former Employees (O.C. 13)

Total Civilian Personnel Costs

10,100	9,962	287,244	57,949	345,193	34,651
16,201	15,982	477,910	97,857	575,767	36,026
26,301	25,944	765,154	155,806	920,960	35,498
26,301	25,944	765,154	155,806	920,960	0
				0	35,498
				0	0
				0	0
				0	0
26,301	25,944	765,154	479	479	0
			156,285	921,439	35,516

DEPARTMENT OF THE AIR FORCE  
CIVILIAN PERSONNEL BUDGET CALCULATION  
FY 1991 PRESIDENT'S BUDGET  
FY 1990

	Full-Time Equivalent End Strength	Work Years	Compensation		Total Compensation	Average Compensation
			O.C. 11	O.C. 12		
<b>INDUSTRIAL FUND</b>						
-----						
Direct Hire Civilians, United States:						
Classified and administrative	10,831	11,202	326,474	52,871	379,345	33,864
Wage Board	26,235	28,348	835,991	138,259	974,250	34,368
Total United States	37,066	39,550	1,162,465	191,130	1,353,595	34,225
Direct Hire Foreign Nationals	358	345	2,689	686	3,375	9,783
Total Direct Hire	37,424	39,895	1,165,154	191,816	1,356,970	34,014
Disadvantaged Employment					0	0
Indirect Hire, Foreign Nationals	573	564	13650	0	13,650	24,202
Foreign National Separation Liability Accrual				1274	1,274	0
Benefits for Former Employees (O.C. 13)					0	0
Total Civilian Personnel Costs	37,997	40,459	1,178,804	193,090	1,371,894	33,908

	Full-Time Equivalent End Strength	Work Years	Compensation		Total Compensation	Average Compensation
			O.C. 11	O.C. 12		
<b>NOTE</b>						
-----						
Direct Hire Civilians, United States:						
Classified and administrative	9,271	8,891	329,267	55,315	384,582	43,255
Wage Board	2,063	1,980	63,432	11,105	74,537	37,645
Total United States	11,334	10,871	392,699	66,420	459,119	42,233
Direct Hire Foreign Nationals					0	0
Total Direct Hire	11,334	10,871	392,699	66,420	459,119	42,233
Disadvantaged Employment					0	0
Indirect Hire, Foreign Nationals					0	0
Foreign National Separation Liability Accrual					0	0
Benefits for Former Employees (O.C. 13)					0	0
Total Civilian Personnel Costs	11,334	10,871	392,699	66,420	459,119	42,233

DEPARTMENT OF THE AIR FORCE  
CIVILIAN PERSONNEL BUDGET CALCULATION  
FY 1991 PRESIDENT'S BUDGET  
FY 1991

	Full-Time Equivalent End Strength	Work Years	Compensation		Total Compensation	Average Compensation
			O.C. 11	O.C. 12		
SUMMARY						
-----						
Direct Hire Civilians, United States:						
Classified and administrative	156,438	153,532	4,726,953	985,908	5,712,861	37,210
Wage Board	82,766	82,484	2,464,001	466,872	2,930,873	35,533
Total United States	239,204	236,016	7,190,954	1,452,780	8,643,734	36,624
Direct Hire Foreign Nationals	7,054	6,520	60,226	23,550	83,776	12,849
Total Direct Hire	246,258	242,536	7,251,180	1,476,330	8,727,510	35,984
Disadvantaged Employment	0	0	0	0	0	0
Indirect Hire, Foreign Nationals	12,483	12,220	336,097	0	336,097	27,504
Foreign National Separation Liability Accrual	0	0	0	15,222	15,222	0
Benefits for Former Employees (O.C. 13)	0	0	0	12,727	12,727	0
Total Civilian Personnel Costs	258,741	254,756	7,587,277	1,504,279	9,091,556	35,687

<b>OPERATION AND MAINTENANCE, AIR FORCE</b>						
Direct Hire Civilians, United States:						
Classified and administrative	119,120	116,551	3,540,001	763,641	4,303,642	36,925
Wage Board	29,781	29,138	822,711	162,094	984,805	33,798
Total United States	148,901	145,689	4,362,712	925,735	5,288,447	36,300
Direct Hire Foreign Nationals	6,662	6,179	57,272	22,800	80,072	12,959
Total Direct Hire	155,563	151,868	4,419,984	948,535	5,368,519	35,350
Disadvantaged Employment	0	0	0	0	0	0
Indirect Hire, Foreign Nationals	11,944	11,645	321,751	0	321,751	27,630
Foreign National Separation Liability Accrual	0	0	0	13,872	13,872	0
Benefits for Former Employees (O.C. 13)	0	0	0	12,116	12,116	0
Total Civilian Personnel Costs	167,507	163,513	4,741,735	974,523	5,716,258	34,959



DEPARTMENT OF THE AIR FORCE  
CIVILIAN PERSONNEL BUDGET CALCULATION  
FY 1991 PRESIDENT'S BUDGET  
FY 1991

Full-Time Equivalent Strength	Work Years	Compensation O.C. 11	Compensation O.C. 12	Total Compensation	Average Compensation
-------------------------------------	---------------	-------------------------	-------------------------	-----------------------	-------------------------

OPERATION AND MAINTENANCE, AIR FORCE RESERVE

Direct Hire Civilians, United States:  
Classified and administrative

Wage Board

Total United States

Direct Hire Foreign Nationals

Total Direct Hire

Disadvantaged Employment

Indirect Hire, Foreign Nationals

Foreign National Separation Liability Accrual

Benefits for Former Employees (O.C. 13)

Total Civilian Personnel Costs

7,419	7,262	205,943	47,393	253,336	34,885
6,891	6,746	211,182	46,524	257,706	38,201
14,310	14,008	417,125	93,917	511,042	36,482
14,310	14,008	417,125	93,917	511,042	36,482
				0	0
				0	0
				0	0
			110	110	0
14,310	14,008	417,125	94,027	511,152	36,490

OPERATION AND MAINTENANCE, AIR NATIONAL GUARD

Direct Hire Civilians, United States:  
Classified and administrative

Wage Board

Total United States

Direct Hire Foreign Nationals

Total Direct Hire

Disadvantaged Employment

Indirect Hire, Foreign Nationals

Foreign National Separation Liability Accrual

Benefits for Former Employees (O.C. 13)

Total Civilian Personnel Costs

9,972	9,915	297,103	62,490	359,593	36,268
15,998	15,906	494,470	103,811	598,281	37,614
25,970	25,821	791,573	166,301	957,874	37,097
25,970	25,821	791,573	166,301	957,874	37,097
				0	0
				0	0
				0	0
			501	501	0
25,970	25,821	791,573	166,802	958,375	37,116

DEPARTMENT OF THE AIR FORCE  
CIVILIAN PERSONNEL BUDGET CALCULATION  
FY 1991 PRESIDENT'S BUDGET  
FY 1991

Full-Time Equivalent Strength	Work Years	Compensation		Total Compensation	Average Compensation
		O.C. 11	O.C. 12		

INDUSTRIAL FUND

-----  
Direct Hire Civilians, United States:  
Classified and administrative  
Wage Board  
Total United States  
Direct Hire Foreign Nationals  
Total Direct Hire  
Disadvantaged Employment  
Indirect Hire, Foreign Nationals  
Foreign National Separation Liability Accrual  
Benefits for Former Employees (O.C. 13)  
Total Civilian Personnel Costs

10,602	10,844	339,001	54,442	393,443	36,282
28,020	28,699	869,189	142,810	1,011,999	35,263
38,622	39,543	1,208,190	197,252	1,405,442	35,542
392	341	2,954	750	3,704	10,862
39,014	39,884	1,211,144	198,002	1,409,146	35,331
539	575	14,346	0	14,346	24,950
			1,350	1,350	0
39,553	40,459	1,225,490	199,352	1,424,842	35,217

NDT&E

-----  
Direct Hire Civilians, United States:  
Classified and administrative  
Wage Board  
Total United States  
Direct Hire Foreign Nationals  
Total Direct Hire  
Disadvantaged Employment  
Indirect Hire, Foreign Nationals  
Foreign National Separation Liability Accrual  
Benefits for Former Employees (O.C. 13)  
Total Civilian Personnel Costs

9,325	8,960	344,905	57,942	402,847	44,961
2,076	1,995	66,449	11,633	78,082	39,139
11,401	10,955	411,354	69,575	480,929	43,900
11,401	10,955	411,354	69,575	480,929	43,900
			0	0	0
			0	0	0
			0	0	0
11,401	10,955	411,354	69,575	480,929	43,900

DEPARTMENT OF THE AIR FORCE  
DEPOT MAINTENANCE

	FINANCED UNITS	(AIR FORCE - ACTIVE) (\$ Millions)		UNFINANCED UNITS	UNFINANCED \$M
		FY 1989 FINANCED \$M	UNFINANCED		
Air Force.....	N/A	\$2,914.9	N/A		\$152.7
Aircraft Depot Purchased Equipment Maintenance (DPEM).....	N/A	\$2,075.4	N/A		\$98.1
Aircraft.....	489	495.1	N/A		0
Engines.....	9,357	282.9	233		7.0
Aviation Exchangeables.....	N/A	1,297.4	N/A		91.1
Other DPEM.....	N/A	\$428.9	N/A		\$40.0
Non-Aviation Exchangeables. Other Major Non-Aviation Items.....	N/A	144.2	N/A		10.1
Missiles.....	2,301	67.0	674		12.3
Area Base Manufacturing.....	N/A	102.0	N/A		0
AMARC.....	N/A	104.1	N/A		17.6
	N/A	11.6	N/A		0
Other Maintenance.....	N/A	\$410.8	N/A		\$14.6
Interim Contractor Support Big Safari.....	N/A	248.1	N/A		9.7
Other Logistics Activities.	N/A	155.7	N/A		4.9
	N/A	7.0	N/A		0

N/A = Not Applicable

Note: Numbers may not add to totals due to rounding.

(AIR FORCE - ACTIVE)  
(\$ Millions)[illegible]

- \* Reflects the transfer of exchangeable repair funding responsibility to the AF Stock Fund effective July 1991.
- \*\* Does not include any unfinanced exchangeable requirement which would transfer to the Air Force Stock Fund with implementation of stock funding of Depot Level Repairables.

N/A = Not Applicable

**Note:** Numbers may not add to totals due to rounding.

DEPARTMENT OF THE AIR FORCE  
DEPOT MAINTENANCE

METHOD OF ACCOMPLISHMENT  
(\$000)

FY 1989 FINANCED

	CONTRACT	ORGANIC	TOTAL
Air Force Total.....	\$1,312,526	\$1,602,405	\$2,914,931
Aircraft Depot Purchased Equipment Maintenance (DPEM).....	\$785,566	\$1,289,910	\$2,075,476
Aircraft.....	205,447	289,649	495,096
Engines.....	55,795	227,145	282,940
Aviation Exchangeables.....	524,324	773,116	1,297,440
Other DPEM.....	\$123,224	\$305,525	\$428,749
Non-Aviation Exchangeables.....	58,258	85,902	144,160
Other Major Non-Aviation Items.....	24,339	42,618	66,957
Missile Maintenance.....	37,242	64,777	102,019
Area Base Manufacturing.....	3,385	100,634	104,019
ANARC.....	0	11,594	11,594
Other Maintenance.....	\$403,736	\$6,970	\$410,706
Interim Contractor Support.....	248,084	0	248,084
Big Safari.....	155,652	0	155,652
Other Logistics Activities.....	0	6,970	6,970

DEPARTMENT OF THE AIR FORCE  
DEPOT MAINTENANCE

METHOD OF ACCOMPLISHMENT  
(\$000)

	FY 1990 ESTIMATED		FY 1991 ESTIMATE	
	CONTRACT	ORGANIC	CONTRACT	ORGANIC
Air Force Total.....	\$1,404,794	\$1,457,429	\$2,862,223	\$1,281,954
Aircraft Depot Purchased Equipment Maintenance (DPEM)....	\$798,712	\$1,171,781	\$1,970,493	\$632,425
Aircraft.....	212,151	318,654	530,805	215,463
Engines.....	107,785	154,066	261,851	114,705
Aviation Exchangeables.....	478,776	699,061	1,177,837	302,257
Other DPEM.....	\$210,638	\$276,912	\$487,550	\$189,975
Non-Aviation Exchangeables.....	53,197	77,673	130,870	33,584
Other Major Non-Aviation Items	31,724	47,702	79,426	37,466
Missile Maintenance.....	64,007	47,169	111,176	62,784
Area Base Manufacturing.....	61,710	92,791	154,501	56,141
AMARC.....	0	11,577	11,577	0
Other Maintenance.....	\$395,444	\$8,736	\$404,180	\$459,554
Interim Contractor Support.....	236,953	0	236,953	273,698
Big Safari.....	158,491	0	158,491	185,856
Other Logistics Activities.....	0	8,736	8,736	0

\* Reflects the transfer of exchangeable repair funding responsibility to the AF Stock Fund, effective July 1991.

**AIRCRAFT, ENGINES, AND ACCESSORIES  
OPERATIONS AND MAINTENANCE, AIR FORCE  
(\$ Millions)**

**Note:** Contract data includes interservice workload funding. Numbers may not add to totals due to rounding.

# DEPARTMENT OF DEFENSE MANAGEMENT HEADQUARTERS AND HEADQUARTERS SUPPORT ACTIVITIES

DEPARTMENT OF DEFENSE TRANSMITTAL																								
FY 89 ACTUAL					FY 90 ESTIMATE					FY 91 ESTIMATE														
OFF E/S					ENL E/S					TOT MIL					CIV E/S					TOT OEL				
INTERNATIONAL MILITARY ORGANIZATIONS																								
North American Air Defense Org																								
HPAF																								
OHPAF																								
North Atlantic Treaty Org																								
NATO Military Committee																								
HPAF																								
Allied Command, Atlantic																								
HPAF																								
Allied Command, Central																								
HPAF																								
Allied Command, Europe																								
HPAF																								
United Nations Command, Korea/U.S. Combined Forces Command, Korea																								
HPAF																								
Total International Military Organizations																								
DEPARTMENTAL SUPPORT																								
7th Communications Group (OSD Support)																								
HPAF																								
OHPAF																								
Total Departmental Support (OSD) Activities																								



DEPARTMENT OF DEFENSE MANAGEMENT HEADQUARTERS AND HEADQUARTERS SUPPORT ACTIVITIES

	FY 89 ACTUAL				FY 90 ESTIMATE				FY 91 ESTIMATE						
	OFF E/S	ENL E/S	TOT MIL	CIV E/S	TOT OEL	OFF E/S	ENL E/S	TOT MIL	CIV E/S	TOT OEL	OFF E/S	ENL E/S	TOT MIL	CIV E/S	TOT OEL
UNITED COMMANDS															
U.S. Atlantic Command															
MPAF	60	26	86		\$4,452	47	21	68		\$3,580	47	21	68		\$3,700
U.S. European Command															
MPAF	139	169	308		\$13,320	138	62	200		\$10,521	138	60	198		\$10,816
U.S. Pacific Command															
MPAF	198	143	341		\$16,272	201	141	342		\$16,760	195	137	332		\$16,794
ONAF				3	\$108										
U.S. Southern Command															
MPAF	47	21	68		\$3,505	49	23	72		\$3,764	47	23	70		\$3,758
HQ U.S. Central Command															
MPAF	120	101	221		\$10,258	119	102	221		\$10,447	116	101	217		\$10,555
ONAF				39	\$5,740					\$6,087				42	\$6,668
HQ U.S. Space Command															
MPAF	76	33	109		\$5,641	74	26	100		\$5,437	74	23	97		\$5,534
ONAF				42	\$4,077					\$4,741				54	\$4,784
U.S. Special Operations Command															
MPAF	96	47	143		\$7,272	88	42	130		\$6,779	86	39	125		\$6,787
ONAF				86	\$19,823					\$22,212					
U.S. Transportation Command															
MPAF	60	39	99		\$4,811	60	35	95		\$4,802	60	35	95		\$4,960
ONAF				108	\$15,728					\$20,358				123	\$20,845
Total Unified Commands	796	579	1375	278	\$111,007	776	452	1228	333	\$115,488	763	439	1202	219	\$95,201

SPECIFIED COMMANDS

HQ Military Airlift Command															
MPAF	555	488	1043		\$48,022	616	537	1153		\$54,333	616	533	1149		\$55,952
ONAF				520	\$30,722					\$31,450				587	\$32,177
HQ 21st Air Force															
MPAF	66	61	127		\$5,793	65	62	127		\$5,884	65	61	126		\$6,042
ONAF				36	\$1,852					\$1,882				36	\$1,927
HQ 22nd Air Force															
MPAF	60	60	120		\$5,392	59	60	119		\$5,447	59	58	117		\$5,560
ONAF				53	\$2,113					\$2,244				54	\$2,311
HQ 23rd Air Force															
MPAF	70	66	136		\$6,180	69	66	135		\$6,252	69	66	135		\$6,450
ONAF				23	\$1,469					\$1,566					\$177
HQ Strategic Air Command															
MPAF	806	872	1678		\$74,254	969	884	1853		\$86,581	969	877	1846		\$89,131
ONAF				487	\$32,639					\$31,206				500	\$31,796

**DEPARTMENT OF DEFENSE MANAGEMENT HEADQUARTERS AND HEADQUARTERS SUPPORT ACTIVITIES**

	FY 89 ACTUAL				FY 90 ESTIMATE				FY 91 ESTIMATE						
	OFF E/S	ENL E/S	TOT MIL	CIV E/S	TOT OEL	OFF E/S	ENL E/S	TOT MIL	CIV E/S	TOT OEL	OFF E/S	ENL E/S	TOT MIL	CIV E/S	TOT OEL
HQ 8th Air Force															
HNAF	137	139	276		\$12,367	125	110	235		\$11,055	122	101	223		\$10,949
CNAF				48	\$3,040				40	\$2,709				40	\$2,667
HQ 15th Air Force															
HNAF	133	142	275		\$12,201	121	113	234		\$10,885	119	100	219		\$10,723
CNAF				49	\$2,618				41	\$2,423				39	\$2,381
HQ Forces Command															
HNAF	22	2	24		\$1,424	22	1	23		\$1,426	22	1	23		\$1,476
CNAF				7	\$234										
Total Specified Commands	1849	1830	3679	1723	\$240,320	2046	1833	3879	1280	\$255,343	2041	1797	3838	1256	\$260,289

**HQ DEPARTMENTAL ACTIVITIES**

Secretariat															
HNAF	386	42	428		\$25,177	379	50	429		\$25,489	380	51	431		\$26,478
CNAF				415	\$19,118				422	\$18,594				416	\$18,070
Air Staff															
HNAF	892	106	998		\$38,427	925	123	1048		\$62,237	887	119	1006		\$61,804
CNAF				397	\$51,124				541	\$51,586				587	\$54,011
Air Staff ANG															
HNAF	131		131		\$3,380	133		133		\$3,536	139		139		\$3,684
CNAF				91	\$5,204				91	\$5,545				91	\$5,627
Air Staff AFR															
HNAF	20	3	23		\$1,032	20	3	23		\$1,006	20	3	23		\$1,052
CNAF				31	\$1,969				31	\$1,800				31	\$1,905
<b>Total HQ Departmental Activities</b>	<b>1429</b>	<b>151</b>	<b>1580</b>	<b>934</b>	<b>\$165,431</b>	<b>1457</b>	<b>176</b>	<b>1633</b>	<b>1085</b>	<b>\$169,793</b>	<b>1426</b>	<b>173</b>	<b>1599</b>	<b>1125</b>	<b>\$173,631</b>

**DEPARTMENTAL SUPPORT ACTIVITIES (AF)**

7th Communications Group (AF HQ Support)															
HNAF	93	32	125		\$6,671	95	37	132		\$7,082	95	37	132		\$7,321
CNAF				113	\$4,173				121	\$4,467				121	\$4,660
<b>Total Department Support Activities (AF)</b>	<b>93</b>	<b>32</b>	<b>125</b>	<b>113</b>	<b>\$10,844</b>	<b>95</b>	<b>37</b>	<b>132</b>	<b>121</b>	<b>\$11,549</b>	<b>95</b>	<b>37</b>	<b>132</b>	<b>121</b>	<b>\$11,981</b>

DEPARTMENT OF DEFENSE MANAGEMENT HEADQUARTERS AND HEADQUARTERS SUPPORT ACTIVITIES

FUNCTIONAL/FUNCTIONAL SUPPORT ACTIVITIES	FY 89 ACTUAL				FY 90 ESTIMATE				FY 91 ESTIMATE						
	OFF E/S	ENL E/S	TOT MIL	CIV E/S	TOT OBL	OFF E/S	ENL E/S	TOT MIL	CIV E/S	TOT OBL	OFF E/S	ENL E/S	TOT MIL	CIV E/S	TOT OBL
Air Force Logistics Command	247	107	354	1261	\$18,326	277	103	380	1269	\$20,511	255	102	357	1263	\$19,729
HPAF					\$52,582					\$51,552					\$54,508
CHAF															
HQ Air Force Systems Command	409	102	511	412	\$28,266	420	115	535	654	\$29,934	260	75	335	604	\$19,277
HPAF					\$25,722					\$24,953					\$28,914
CHAF															
HQ Aeronautical Systems Division	30	10	40	84	\$2,143	30	10	40	84	\$2,189	30	10	40	84	\$2,263
HPAF					\$2,963					\$3,374					\$3,583
CHAF															
HQ Electronic Systems Division	32	19	51	72	\$2,516	32	19	51	72	\$2,571	32	19	51	22	\$2,655
HPAF					\$2,540					\$2,892					\$1,848
CHAF															
HQ Space Division	32	18	50	66	\$2,489	32	18	50	66	\$2,542	32	18	50	66	\$2,626
HPAF					\$2,629					\$2,952					\$3,086
CHAF															
HQ Human Systems Division	24	12	36	40	\$1,825	24	12	36	40	\$1,864	24	12	36	40	\$1,926
HPAF					\$1,758					\$1,950					\$2,019
CHAF															
HQ Missile Division	28	15	43	38	\$2,157	28	15	43	38	\$2,203	28	15	43	38	\$2,276
HPAF					\$1,536					\$1,722					\$1,797
CHAF															
HQ Air Force Reserve	50	87	138	148	\$6,192	54	86	141	151	\$6,166	54	86	141	151	\$6,448
HPAF					\$11,285					\$11,925					\$12,201
CHAF															
HQ Air Training Command	387	293	680	385	\$32,178	387	294	681	406	\$32,907	387	294	681	406	\$33,969
HPAF					\$18,198					\$18,154					\$18,655
CHAF															
HQ Air University	48	40	88	58	\$4,092	54	38	92	65	\$4,506	54	38	92	65	\$4,652
HPAF					\$2,363					\$2,435					\$2,574
CHAF															
HQ Air Force Communications Command	293	386	679	376	\$28,901	326	408	734	467	\$32,260	293	380	673	441	\$30,273
HPAF					\$21,250					\$20,723					\$20,657
CHAF															
HQ Electronic Security Command	133	277	410	210	\$15,933	151	252	403	225	\$16,727	148	248	396	232	\$16,913
HPAF					\$12,101					\$12,601					\$11,654
CHAF															
Air Force District of Washington	80	104	184	309	\$7,853	85	88	173	242	\$7,891	85	89	174	241	\$8,168
HPAF					\$13,003					\$12,163					\$10,545
CHAF															
1100th Resource Management Group	17	87	104	175	\$3,463	17	87	104	195	\$3,543	17	87	104	195	\$3,636
HPAF					\$6,796					\$7,296					\$7,537
CHAF															
Total Support Activities (AF)	1810	1557	3368	3634	\$331,060	1917	1545	3463	3974	\$340,506	1699	1473	3173	3848	\$334,389

**DEPARTMENT OF DEFENSE MANAGEMENT HEADQUARTERS AND HEADQUARTERS SUPPORT ACTIVITIES**

	FY 89 ACTUAL				FY 90 ESTIMATE				FY 91 ESTIMATE						
	OFF E/S	ENL E/S	TOT MIL	CIV E/S	TOT OEL	OFF E/S	ENL E/S	TOT MIL	CIV E/S	TOT OEL	OFF E/S	ENL E/S	TOT MIL	CIV E/S	TOT OEL
COMPONENT/COMPONENT SUPPORT ACTIVITIES															
HQ Pacific Air Forces															
HNAF	299	282	581		\$26,399	316	260	576		\$27,434	316	260	576		\$28,314
ONAF				222	\$15,671				239	\$17,950				239	\$14,936
HQ 5th Air Force															
HNAF	32	44	76		\$3,207	35	44	79		\$3,469	35	41	76		\$3,489
ONAF				25	\$1,730				26	\$1,550				26	\$1,640
HQ 7th Air Force															
HNAF	39	39	78		\$3,505	39	39	78		\$3,582	39	38	77		\$3,665
ONAF				18	\$1,100				16	\$1,145				16	\$1,240
HQ 13th Air Force															
HNAF	19	12	31		\$1,514	19	12	31		\$1,547	19	12	31		\$1,597
ONAF				15	\$852				15	\$1,066				15	\$1,090
HQ Air Force Space Command															
HNAF	299	169	468		\$23,275	344	188	532		\$27,174	344	188	532		\$28,073
ONAF				214	\$14,753				230	\$14,712				230	\$14,463
HQ Tactical Air Command															
HNAF	706	625	1331		\$61,204	763	598	1361		\$65,398	757	599	1356		\$67,138
ONAF				377	\$23,249				404	\$22,914				410	\$23,124
HQ 1st Air Force															
HNAF	40	39	79		\$3,567	40	39	79		\$3,645	39	36	75		\$3,608
ONAF				13	\$1,848				13	\$1,702				13	\$1,655
HQ 9th Air Force															
HNAF	94	80	174		\$8,060	94	80	174		\$8,236	90	75	165		\$8,092
ONAF				25	\$3,103				25	\$2,937				25	\$2,865
HQ 12th Air Force															
HNAF	94	76	170		\$7,949	94	76	170		\$8,123	93	71	164		\$8,173
ONAF				21	\$1,784				21	\$1,644				21	\$1,625
HQ US Air Forces in Europe															
HNAF	413	456	869		\$38,302	483	404	887		\$42,119	483	404	887		\$43,468
ONAF				319	\$14,985				313	\$15,116				313	\$14,728
HQ 3rd Air Force															
HNAF	27	23	50		\$2,316	32	35	67		\$3,024	32	35	67		\$3,118
ONAF				12	\$856				15	\$960				15	\$1,052
HQ 16th Air Force															
HNAF	22	12	34		\$1,701	22	21	43		\$1,992	22	21	43		\$2,055
ONAF				13	\$886				18	\$1,067				15	\$1,163

DEPARTMENT OF DEFENSE MANAGEMENT HEADQUARTERS AND HEADQUARTERS SUPPORT ACTIVITIES

	FY 89 ACTUAL				FY 90 ESTIMATE				FY 91 ESTIMATE						
	OFF E/S	ENL E/S	TOT MIL	CIV E/S	TOT OEL	OFF E/S	ENL E/S	TOT MIL	CIV E/S	TOT OEL	OFF E/S	ENL E/S	TOT MIL	CIV E/S	TOT OEL
HQ 17th Air Force															
MPAF	26	13	39		\$1,977	33	23	56		\$2,747	33	23	56		\$2,837
OWAF				7	\$585				11	\$695				11	\$668
HQ Alaskan Air Command															
MPAF	111	134	245		\$10,611	102	118	220		\$9,820	102	118	220		\$10,125
OWAF				69	\$5,403				75	\$5,367				75	\$5,585
Total Combat Support Activities	2221	2004	4225	1350	\$280,392	2416	1937	4353	1421	\$297,135	2404	1921	4325	1424	\$299,586
Unrecorded FY89 Actuals				2	\$60										
OWAF															
Management HQ Activities	8582	6310	15093	7648	\$1,178,662	9079	6319	15399	8311	\$1,228,251	8799	6179	14979	8090	\$1,214,358

DEPARTMENT OF AIR FORCE  
SUMMARY OF LEGISLATIVE ACTIVITIES - FISCAL YEAR 1989  
FY 1991 PRESIDENT'S BUDGET  
(\$ IN THOUSANDS)

A. LEGISLATIVE LIAISON (Subject to Congressional Limitation)

1. All personnel assigned permanently or detailed to any legislative liaison office, including all personnel physically located in an office on Capitol Hill. Also all personnel involved in the preparation and execution of Congressional travel.

	Av. No. Civ. Emps	Total Civilian Compensation	Av. No. Mil. Pers	Total Military Cost	All Other Costs	Total Cost
Limitation	11	306	22	1,779	212	2,297
Pay Raise	-	9	-	53	-	62
Subtotal	11	315	22	1,832	212	2,359

2. All personnel assigned to approved legislative liaison positions of other Department of Defense activities and agencies whose primary mission is to promote liaison of their activity or agency with Congress.

Limitation  
Pay Raise  
Subtotal

NOT APPLICABLE

3. All personnel assigned permanently or detailed to comptroller or budget liaison offices.

Limitation	8	331	9	710	27	1,068
Pay Raise	-	8	-	19	-	27
Subtotal	8	339	9	729	27	1,095

Total Legislative Liaison

Limitation	19	637	31	2,489	239	3,365
Pay Raise	-	17	-	72	-	89
Total	19	654	31	2,561	239	3,454

DEPARTMENT OF AIR FORCE  
SUMMARY OF LEGISLATIVE ACTIVITIES - FISCAL YEAR 1989  
FY 1991 PRESIDENT'S BUDGET  
(\$ IN THOUSANDS)

B. OTHER LEGISLATIVE ACTIVITIES

	Av. No. Civ. Emps	Total Civilian Compensation	Av. No. Mil. Pers	Total Military Cost	All Other Costs	Total Cost
1. Those personnel not included in Category A "Legislative Liaison" in the various Departments who spend at least 30 man days per year in direct personal contact with Members and committees of Congress and their staffs.						
Program	1	63	2	124	3	190
Pay Raise	-	2	-	2	-	4
Subtotal	1	65	2	126	3	194
2. Personnel involved with the routine activities necessary for the preparation of a legislative program such as tracking legislation, writing analyses and performing research with respect to legislation.						
Program	14	646	25	1,890	20	2,556
Pay Raise	-	24	-	35	-	59
Subtotal	14	670	25	1,925	20	2,615
3. Personnel not included above who spend more than 30 man days per year in coordinating and answering Congressional inquiries, constituent letters and telephone inquiries.						
Program	16	488	36	1,858	16	2,362
Pay Raise	-	18	-	35	-	53
Subtotal	16	506	36	1,893	16	2,415
4. Personnel not included above who spend more than 30 man days per year in preparation and processing of congressional justification books, witness statements, and hearing transcripts.						
Program	4	212	8	643	7	862
Pay Raise	-	8	-	12	-	20
Subtotal	4	220	8	655	7	882
				36		

	Av. No. Civ. Emps	Total Civilian Compensation	Av. No. Mil. Pers	Total Military Cost	All Other Costs	Total Cost
5. All clerical and administrative personnel who spend at least 30 man days per year assisting those personnel identified in Category B.						
Program	14	310	6	181	22	513
Pay Raise	-	12	-	3	-	15
Subtotal	14	322	6	184	22	528
Total Other Legislative Activities						
Program	49	1,719	77	4,696	68	6,483
Pay Raise	-	64	-	87	-	151
Total	49	1,783	77	4,783	68	6,634
GRAND TOTAL FY 89						
Program	68	2,356	108	7,185	307	9,848
Pay Raise	-	81	-	159	-	240
Total	68	2,437	108	7,344	307	10,088



DEPARTMENT OF AIR FORCE  
SUMMARY OF LEGISLATIVE ACTIVITIES - FISCAL YEAR 1990  
FY 1991 PRESIDENT'S BUDGET  
(\$ IN THOUSANDS)

A. LEGISLATIVE LIAISON

	Av. No. Civ. Emps	Total Civilian Compensation	Av. No. Mil. Pers	Total Military Cost	Other Costs	Total Cost
1. All personnel assigned permanently or detailed to any legislative liaison office, including all personnel physically located in an office on Capitol Hill. Also all personnel involved in the preparation and execution of Congressional travel.						
Program	11	318	22	1,834	225	2,377
Pay Raise	-	1	-	60	-	70
Subtotal	11	328	22	1,894	225	2,447
2. All personnel assigned to approved legislative liaison positions of other Department of Defense activities and agencies whose primary mission is to promote liaison of their activity or agency with Congress.						
NOT APPLICABLE						
Program						
Pay Raise						
Subtotal						
3. All personnel assigned permanently or detailed to comptroller or budget liaison offices.						
Program	8	340	9	732	34	1,106
Pay Raise	-	11	-	17	-	28
Subtotal	8	351	9	749	34	1,134
Total Legislative Liaison						
Program	19	658	31	2,566	259	3,483
Pay Raise	-	21	-	77	-	98
Subtotal	19	679	31	2,643	259	3,581

DEPARTMENT OF AIR FORCE  
SUMMARY OF LEGISLATIVE ACTIVITIES - FISCAL YEAR 1990  
FY 1991 PRESIDENT'S BUDGET  
(\$ IN THOUSANDS)

**B. OTHER LEGISLATIVE ACTIVITIES**

	Av. No. Civ. Emps	Total Civilian Compensation	Av. No. Mil. Pers	Total Military Cost	All Other Costs	Total Cost
1. Those personnel not included in Category A "Legislative Liaison" in the various Departments who spend at least 30 man days per year in direct personal contact with Members and committees of Congress and their staffs.						
Program	1	64	2	127	3	194
Pay Raise	-	3	-	3	-	6
Subtotal	1	67	2	130	3	200
2. Personnel involved with the routine activities necessary for the preparation of a legislative program such as tracking legislation, writing analyses and performing research with respect to legislation.						
Program	14	669	25	1,930	21	2,620
Pay Raise	-	26	-	38	-	64
Subtotal	14	695	25	1,968	21	2,684
3. Personnel not included above who spend more than 30 man days per year in coordinating and answering Congressional inquiries, constituent letters and telephone inquiries.						
Program	16	505	36	1,885	16	2,406
Pay Raise	-	20	-	38	-	58
Subtotal	16	525	36	1,923	16	2,464
4. Personnel not included above who spend more than 30 man days per year in preparation and processing of congressional justification books, witness statements, and hearing transcripts.						
Program	4	221	8	657	7	885
Pay Raise	-	8	-	13	-	21
Subtotal	4	229	8	670	7	906
					39	

	Av. No. Civ. Emps	Total Civilian Compensation	Av. No. Mil. Pers	Total Military Cost	All Other Costs	Total Cost
5. All clerical and administrative personnel who spend at least 30 man days per year assisting those personnel identified in Category B.						
Program	14	321	6	181	22	524
Pay Raise	-	12	-	4	-	16
Subtotal	14	333	6	185	22	540
Total Other Legislative Activities						
Program	49	1,780	77	4,780	68	6,629
Pay Raise	-	69	-	96	-	165
Total	49	1,849	77	4,876	68	6,794
GRAND TOTAL FY 90						
Program	68	2,438	108	7,346	328	10,112
Pay Raise	-	87	-	147	-	234
Total	68	2,525	108	7,493	328	10,346

DEPARTMENT OF AIR FORCE  
SUMMARY OF LEGISLATIVE ACTIVITIES - FISCAL YEAR 1991  
FY 1991 PRESIDENT'S BUDGET  
(\$ IN THOUSANDS)

A. LEGISLATIVE LIAISON

	Av. No. Civ. Emps	Total Civilian Compensation	Av. No. Mil. Pers	Total Military Cost	Other Costs	Total Cost
1. All personnel assigned permanently or detailed to any legislative liaison office, including all personnel physically located in an office on Capitol Hill. Also all personnel involved in the preparation and execution of Congressional travel.						
Program	11	327	22	1,889	249	2,465
Pay Raise	-	10	-	61	-	71
Subtotal	11	337	22	1,950	249	2,536
2. All personnel assigned to approved legislative liaison positions of other Department of Defense activities and agencies whose primary mission is to promote liaison of their activity or agency with Congress.						
NOT APPLICABLE						
Program						
Pay Raise						
Subtotal						
3. All personnel assigned permanently or detailed to comptroller or budget liaison offices.						
Program	8	354	9	755	35	1,144
Pay Raise	-	10	-	19	-	29
Subtotal	8	364	9	774	35	1,173
Total Legislative Liaison						
Program	19	681	31	2,644	284	3,609
Pay Raise	-	20	-	80	-	100
Total	19	701	31	2,724	284	3,709

DEPARTMENT OF AIR FORCE  
SUMMARY OF LEGISLATIVE ACTIVITIES - FISCAL YEAR 1991  
FY 1991 PRESIDENT'S BUDGET  
(\$ IN THOUSANDS)

**B. OTHER LEGISLATIVE ACTIVITIES**

	Av. No. Civ. Emps	Total Civilian Compensation	Av. No. Mil. Pers	Total Military Cost	All Other Costs	Total Cost
1. Those personnel not included in Category A "Legislative Liaison" in the various Departments who spend at least 30 man days per year in direct personal contact with Members and committees of Congress and their staffs.						
Program	1	68	2	132	3	203
Pay Raise	-	2	-	3	-	5
Subtotal	1	70	2	135	3	208
2. Personnel involved with the routine activities necessary for the preparation of a legislative program such as tracking legislation, writing analyses and performing research with respect to legislation.						
Program	14	694	25	1,992	21	2,707
Pay Raise	-	25	-	38	-	63
Subtotal	14	719	25	2,030	21	2,770
3. Personnel not included above who spend more than 30 man days per year in coordinating and answering Congressional inquiries, constituent letters and telephone inquiries.						
Program	16	524	36	1,937	17	2,478
Pay Raise	-	19	-	37	-	56
Subtotal	16	543	36	1,974	17	2,534
4. Personnel not included above who spend more than 30 man days per year in preparation and processing of congressional justification books, witness statements, and hearing transcripts.						
Program	4	228	8	677	8	913
Pay Raise	-	8	-	13	-	21
Subtotal	4	236	8	690	8	934

	Av. No. Civ. Emps	Total Civilian Compensation	Av. No. Mil. Pers	Total Military Cost	All Other Costs	Total Cost
5. All clerical and administrative personnel who spend at least 30 man days per year assisting those personnel identified in Category B.						
Program	14	333	6	184	23	540
Pay Raise	-	12	-	4	-	16
Subtotal	14	345	6	188	23	556
Total Other Legislative Activities						
Program	49	1,847	77	4,922	72	6,841
Pay Raise	-	66	-	95	-	161
Total	49	1,913	77	5,017	72	7,002
GRAND TOTAL FY 91						
Program	68	2,528	108	7,566	356	10,450
Pay Raise	-	85	-	147	-	232
Total	68	2,613	108	7,713	356	10,682

AIR FORCE - ACTIVE O&M  
REAL PROPERTY MAINTENANCE ACTIVITIES  
MAINTENANCE OF REAL PROPERTY FACILITIES  
(Dollars in Thousands)

	FY 1989 Actual	FY 1990 Estimate	FY 1991 Estimate
1. Funded Program			
a. Category of Maintenance			
Recurring Maintenance	\$1,043,254	\$1,137,453	\$1,213,154
Major Repair Projects	490,758	356,520	444,457
Minor Construction	200,166	109,127	126,270
Total Maintenance of Real Property Facilities	\$1,734,178	\$1,603,100	\$1,783,881
b. Budget Activity			
Strategic Forces	\$ 442,808	\$ 367,990	\$ 376,822
General Purpose Forces	575,824	562,428	681,247
Intelligence & Communications	46,589	39,888	40,713
Airlift	138,171	161,494	171,119
Central Supply & Maintenance	256,420	228,243	262,933
Training and Other General	189,057	170,937	171,279
Personnel Activities			
Medical	69,889	59,527	62,402
Administration & Associated Activities	15,420	12,593	17,366
Total Maintenance of Real Property Facilities	\$1,734,178	\$1,603,100	\$1,783,881
2 Backlog of Maintenance and Repair	\$1,039,900	\$1,335,700	\$1,575,900

DEPARTMENT OF THE AIR FORCE  
FY 1991 PRESIDENT'S BUDGET  
MANPOWER CHANGES IN FULL TIME EQUIVALENT END STRENGTH

	FUNDED DIRECT	CIVILIAN PERSONNEL INDUSTRIAL FUNDED	TOTAL
1. FY 89 END STRENGTH	218,891	41,684	260,575
-- Force Structure/Modernization	-50		-50
-- Readiness/Sustainability	800		800
Medical (700)			
AAC Snow Removal (100)			
-- Command and Control	550	-2,000	-1,450
Space Act (150)			
WMMCCS/WWABNCP (100)			
SAR (250)			
OTH-B (50)			
Communication Services IF (-2000)			
-- Economic Initiatives	1,750		1,750
Mil-Civ Conversion (1200)			
Cent Civ Pay Slip (150)			
MWR Cong Directed (250)			
A-76 Cost Comparison (150)			
-- Other	1,924	-1,687	237
SARPMA, O&M (1500)			
SARPMA, IF (-1687)			
Officer-Civ Conversion (400)			
Misc, O&M (24)			
Misc, IF (-137)			



DEPARTMENT OF THE AIR FORCE  
FY 1991 PRESIDENT'S BUDGET  
MANPOWER CHANGES IN FULL TIME EQUIVALENT END STRENGTH

	FUNDED DIRECT	CIVILIAN PERSONNEL INDUSTRIAL FUNDED	TOTAL
2. FY 90 END STRENGTH	223,865	37,997	261,862
-- Force Structure/Modernization			
SOF (-1050)	-1,350		-1,350
ARC ( -300)			
-- Command and Control			
Communication Services, IF (1556)		1,556	1,556
-- Economic Initiatives			
Mil-Civ (3050)	3,050		3,050
-- Other			
AFLC/AFSC/AFCC (-7700)	-6,377		-6,377
MWR (2100)			
Base Closure (-350)			
Civ Pers Mgmt (-150)			
Competition Advocacy (-200)			
3. FY 91 END STRENGTH	219,188	39,553	258,741

DEPARTMENT OF THE AIR FORCE  
FY 1991 PRESIDENT'S BUDGET  
MANPOWER CHANGES IN FULL TIME EQUIVALENT END STRENGTH

4. SUMMARY	FY 89	FY 90	FY 91
O&M	<u>167,160</u>	<u>171,409</u>	<u>167,507</u>
Directed Reimbursable	152,633 14,527	158,599 12,810	123,707 43,800
Industrial	41,684	37,997	39,553
Directed Reimbursable	0 41,684	0 37,997	0 39,553
RD&E	11,925	11,334	11,401
Directed Reimbursable	10,335 1,590	9,744 1,590	9,811 1,590
AFR	14,155	14,821	14,310
Directed Reimbursable	14,133 22	14,794 27	14,283 27
ANG	25,651	26,301	25,970
Directed Reimbursable	25,430 221	25,983 318	25,652 318
TOTAL AIR FORCE	260,575 202,531 58,044	261,862 209,120 52,742	258,741 173,453 85,288
Directed Reimbursable			

DEPARTMENT OF THE AIR FORCE

MILITARY BANDS

FY 1991 AMENDED PRESIDENT'S BUDGET

	<u>FY 1989</u>	<u>FY 1990</u>	<u>FY 1991</u>
<u>Number of Bands</u>			
CONUS	17	17	17
Overseas	<u>3</u>	<u>3</u>	<u>3</u>
Total	20	20	20
<u>Military Personnel</u>			
Officers	32	32	32
Enlisted	<u>1,105</u>	<u>1,105</u>	<u>1,105</u>
Total	1,137	1,137	1,137

(in Thousands)

<u>Annual Performances</u>	
Military Retention, On Base	5.9
Recruiting, Off Base	1.3
Community Relations, Off Base	3.0
Total	10.2

# AIR FORCE BANDS

(\$ in Millions)

	<u>FY 1989</u>	<u>FY 1990</u>	<u>FY 1991</u>
Resource Requirements by Appropriation			
Military Personnel	\$ 37.6	\$ 38.5	\$ 38.8
Operation & Maintenance, Air Force	7.7	6.5	7.0
Operation & Maintenance, Air Force Reserve	<u>.4</u>	<u>.4</u>	<u>.4</u>
Total	\$ 45.7	\$ 45.4	\$ 46.2

## Justification

Air Force bands perform a multifaceted mission of recruiting, internal entertainment programs supporting retention, military ceremonies, official White House, Congressional, and State Department functions, nationwide community relations programs, and preserving and promoting our national heritage. The increased personnel cost in FY 1991 reflects projected inflation. There is no real growth programmed for this timeframe.

AIR FORCE - ACTIVE O&M  
APPROPRIATED FUND SUPPORT OF MORALE, WELFARE AND RECREATION ACTIVITIES  
(Dollars in Thousands)

FY 89	Total Operations	Operations & Maint	O & M RESERVE	RDT&E	Other Procure	Military Personnel	Major Construct
Category A	224655.3	151312.6	2226.5	3288.4	230.8	50017.0	17580.0
Category B	57212.5	52803.1	26.9	1183.4	669.9	1679.2	850.0
Category C	69811.4	56669.7	1102.3	2135.2	803.4	9100.8	
Total FY 89	351679.2	260785.4	3355.7	6607.0	1704.1	60797.0	18430.0
FY 90	Total Operations	Operations & Maint	O & M	RDT&E	Other Procure	Military Personnel	Major Construct
Category A	229786.7	157970.4	2324.5	3433.1	241.0	52217.7	13600.0
Category B	96310.4	77395.9	28.1	2180.0	663.3	1753.1	14290.0
Category C	56574.9	43096.7	1150.8	2229.1	838.7	9259.6	
Total FY 90	382672.0	278463.0	3503.4	7842.2	1743.0	63230.4	27890.0
FY 91	Total Operations	Operations & Maint	O & M	RDT&E	Other Procure	Military Personnel	Major Construct
Category A	295845.6	217791.4	2406.2	3553.8	241.0	54053.2	17800.0
Category B	113436.8	100411.0	27.8	2256.6	686.7	1814.7	8240.0
Category C	34510.3	31575.6				2934.7	
Total FY 91	443792.7	349778.0	2434.0	5810.4	927.7	58802.6	26040.0

AIR FORCE - ACTIVE O&M  
APPROPRIATED FUND SUPPORT OF MORALE, WELFARE AND RECREATION ACTIVITIES  
(Dollars in Thousands)

FY 89	Total Operations	Operations & Maint	O & M Reserves	RDT&E	Other Procure	Military Personnel	Major Construct
Category A							
Mission Sustaining							
Common Support							
Svcs	90719.0	60002.3	2053.6	2134.4	22.9	25805.8	700.0
Physical							
Fitness	54384.2	25122.9	172.9	501.7	16.6	15570.1	13000.0
Sports							
(Self dir)	2284.3	1956.4		25.2		302.7	
Libraries	19973.6	17800.4		517.8		375.4	1280.0
Recreation							
Centers	22411.2	11547.6		109.3	191.3	7963.0	2600.0
Indirect							
Support	34883.0	34883.0					
Total							
Category A	224655.3	151312.6	2226.5	3288.4	230.8	50017.0	17580.0

AIR FORCE - ACTIVE O&M  
APPROPRIATED FUND SUPPORT OF MORALE, WELFARE AND RECREATION ACTIVITIES  
(Dollars in Thousands)

FY 90	Total Operations	Operations & Maint	O & M Reserves	RDT&E	Other Procure	Military Personnel	Major Construct
Category A							
Mission Sustaining							
Common Support	93979.9	62642.4	2144.0	2228.3	23.9	26941.3	
Svcs							
Physical							
Fitness	54805.1	26228.3	180.5	523.8	17.3	16255.2	11600.0
Sports							
(Self dir)	2384.8	2042.5		26.3		316.0	
Libraries	19516.1	18583.6		540.6		391.9	
Recreation Ctrs	22682.9	12055.7		114.1	199.7	8313.4	2000.0
Indirect Spt	36417.9	36417.9					
Total							
Category A	229786.7	157970.4	2324.5	3433.1	241.0	52217.7	13600.0

AIR FORCE - ACTIVE O&M  
APPROPRIATED FUND SUPPORT OF MORALE, WELFARE AND RECREATION ACTIVITIES  
(Dollars in Thousands)

FY 91	Total Operations	Operations & Maint	O & M Reserves	RDT&E	Other Procure	Military Personnel	Major Construct
Category A							
Mission Sustaining							
Common Support	114035.0	81596.8	2219.3	2306.7	24.0	27888.2	
Svcs							
Physical	78480.5	43107.5	186.9	542.2	17.3	16826.6	17800.0
Fitness							
Sports							
(Self dir)	2468.6	2114.3		27.2		327.1	
Libraries	33619.7	32654.4		559.6		405.7	
Recreation Ctrs	29543.9	20620.5		118.1	199.7	8605.6	
Indirect Spt	37697.9	37697.9					
Total							
Category A	295845.6	217791.4	2406.2	3553.8	241.0	54053.2	17800.0



AIR FORCE - ACTIVE O&M  
APPROPRIATED FUND SUPPORT OF MORALE, WELFARE AND RECREATION ACTIVITIES  
(Dollars in Thousands)

FY 89	Total Operations	Operations & Maint	O & M Reserves	RDT&E	Other Procure	Military Personnel	Major Construct
Category B							
Community Support							
Arts & Crafts	16523.4	15271.0		320.6	143.0	788.8	
Automotive Skills	3161.6	3084.9		36.2	20.4	20.1	
Child Development Ctrs	15305.9	13928.0		224.9	303.0		850.0
Outdoor Recreation	9414.3	8307.6		252.6	192.0	662.1	
Swimming Pools	1867.3	1798.8		68.5			
Youth Activities	8372.2	8084.6		280.6		7.0	
Bowling (12 lanes or less)	1462.4	1424.0	26.9		11.5		
Tickets & Tours	536.2	416.3				119.9	
Civilian Welfare Fund	9.7	9.7					
Sports Programs (above intramural level)	183.7	102.4				81.3	
Marinas (w/o resale)	213.8	213.8					
Entertainment	162.0	162.0					
Total							
Category B	57212.5	52803.1	26.9	1183.4	669.9	1679.2	850.0

AIR FORCE - ACTIVE O&M  
APPROPRIATED FUND SUPPORT OF MORALE, WELFARE AND RECREATION ACTIVITIES  
(Dollars in Thousands)

FY 90	Total Operations	Operations & Maint	O & M Reserves	RDT&E	Other Procure	Military Personnel	Major Construct
Category B							
Community Support							
Arts & Crafts	17081.3	15773.8		334.7	149.3	823.5	
Automotive							
Skills	3300.7	3220.6		37.8	21.3	21.0	
Child Development							
Ctrs	52690.0	36940.4		1179.3	280.3		14290.0
Outdoor							
Recreation	9828.5	8673.1		263.7	200.4	691.2	
Swimming Pools	1962.0	1890.5		71.5			
Youth Activities	8740.6	8440.3		292.9		7.3	
Bowling (12 lanes or less)	1553.3	1513.2	28.1		12.0		
Tickets & Tours	559.8	434.6				125.2	
Civilian							
Welfare Fund	10.1	10.1					
Sports Programs							
(above intramural level)	191.8	106.9				84.9	
Marinas							
(resale)	223.2	223.2					
Entertainment	169.1	169.1					
Total							
Category B	96310.4	77395.9	28.1	2180.0	663.3	1753.1	14290.0

AIR FORCE - ACTIVE O&M  
APPROPRIATED FUND SUPPORT OF MORALE, WELFARE AND RECREATION ACTIVITIES  
(Dollars in Thousands)

FY 91	Total Operations	Operations & Maint	O & M Reserves	RDT&E	Other Procure	Military Personnel	Major Construct
Category B							
Community Support							
Arts & Crafts	29893.4	28539.9		346.5	154.5	852.5	
Automotive Skills	3276.1	3193.3		39.1	22.0	21.7	
Child Development Ctrs	46640.0	36889.1		1220.8	290.2		8240.0
Outdoor Recreation	10174.0	8978.0		273.0	207.5	715.5	
Swimming Pools	2031.0	1956.9		74.0			
Youth Activities	18621.1	18310.3		303.2		7.6	
Bowling (12 lanes or less)	1606.6	1566.4	27.8		12.4		
Tickets & Tours	579.5	449.9				129.6	
Civilian Welfare Fund	10.5	10.5					
Sports Programs (above intramural level)	198.5	110.7				87.9	
Marinas (w/o resale)	231.1	231.1					
Entertainment	175.0	175.0					
Total							
Category B	113436.8	100411.0	27.8	2256.6	686.7	1814.7	8240.0

AIR FORCE - ACTIVE O&M  
APPROPRIATED FUND SUPPORT OF MORALE, WELFARE AND RECREATION ACTIVITIES  
(Dollars in Thousands)

FY 89	Total Operations	Operations & Maint	O & M Reserves	RDT&E	Other Procure	Military Personnel	Major Construct
Category C							
Business Programs							
Aero Clubs	107.0	103.7		3.3			
AAFES (incl Class VI)	7710.9	7710.9					
Other Member	68.3	63.7		4.6			
Assoc	3411.4	3132.1		83.3	196.0		
Bowling	1914.2	1611.4		215.6	87.2		
Golf							
Civ Base							
Restaurants	2537.4	2537.4					
Marinas	110.1	110.1					
Theaters	1330.2	1330.2					
Other Programs	1271.7	950.9		16.0	304.8		
Open Messes	44148.5	32359.6	1102.3	1757.0	215.4	8714.2	
Equipment Rental	7089.9	6647.9		55.4		386.6	
Cabins/Cottages	111.8	111.8					
Total							
Category C	69811.4	56669.7	1102.3	2135.2	803.4	9100.8	0.0

AIR FORCE - ACTIVE O&M  
APPROPRIATED FUND SUPPORT OF MORALE, WELFARE AND RECREATION ACTIVITIES  
(Dollars in Thousands)

FY 90	Total Operations	Operations & Maint	O & M Reserves	RDT&E	Other Procure	Military Personnel	Major Construct
Category C Business Programs							
Aero Clubs	77.6	74.2		3.4			
AAFES (incl Class VI)	8050.2	8050.2					
Other Member Assoc	71.3	66.5		4.8			
Bowling	3561.5	3269.9		87.0	204.6		
Golf	1998.4	1682.3		225.1	91.0		
Civ Base							
Restaurants	102.5	102.5					
Marinas	34.4	34.4					
Theaters	1388.7	1388.7					
Other Programs	1327.6	992.7		16.7	318.2		
Open Messes	32629.4	20563.4	1150.8	1834.3	224.9	8856.0	
Equipment Rental	7301.8	6840.4		57.8		403.6	
Cabins/Cottages	31.4	31.4					
Total	56574.9	43096.7	1150.8	2229.1	838.7	9259.6	0.0
Category C							

AIR FORCE - ACTIVE O&M  
APPROPRIATED FUND SUPPORT OF MORALE, WELFARE AND RECREATION ACTIVITIES  
(Dollars in Thousands)

FY 91	Total Operations	Operations & Maint	O & M Reserves	RDT&E	Other Procure	Military Personnel	Major Construct
Category C							
Business Programs							
Aero Clubs	76.8	76.8					
AAFES (incl							
Class VI)	8333.2	8333.2					
Other Resale	68.8	68.8					
Bowling	3424.2	3424.2					
Golf	1480.6	1480.6					
Civ Base							
Restaurants	106.1	106.1					
Marinas	35.6	35.6					
Theaters	1437.5	1437.5					
Other Programs	1027.6	1027.6				2934.7	
Open Messes	16899.3	13964.6					
Equipment Rental	1586.7	1586.7					
Cabins/Cottages	33.9	33.9					
Total							
Category C	34510.3	31575.6	0.0	0.0	0.0	2934.7	0.0

Department of the Air Force  
External Public Affairs Activities  
FY 1991 President's Budget  
(Dollars in Thousands)

	FY 1989			FY 1990		
	End Strength	Limitation	Pay Raise Total	End Strength	Program	Pay Raise Total
CRM, AF	81	\$2,929	79 3,008	81	\$3,750	84 3,834
Mil Personnel	224	9,907	307 10,214	224	10,017	371 10,388
Total	305	\$12,836	386 13,222	305	\$13,767	455 14,222

FY 1991

		End Strength	Program	Pay Raise	Total
CRM		78	\$3,866	80	3,936
Mil Personnel		224	10,355	331	10,686
Total		302	\$14,211	411	14,622

Narrative Justification

FY 1989 to FY 1990: Increases primarily in supplies, contractual services, and travel. The FY 90 pay raise is 3.6% for civilians and military, both effective 1 Jan 90.

FY 1990 to FY 1991: FY91 pay raise assumptions are 3.5% for civilians and military, effective 1 Jan 91. No public affairs limitation FY 90 and FY 91; Limitation in FY 89 was \$13,368K. Civilian end strengths reduced by 3 in FY 91.

REIMBURSABLE PROGRAM  
(DOLLARS IN THOUSANDS)

Sales Code	Title	FY 89 Actual	FY 90 Estimate	FY 91 Estimate
<b>Federal</b>				
10	Aircraft Procurement	2799	3003	3093
12	Missile Procurement	222	230	236
13	Other Procurement	11510	12339	13597
15	Military Construction	386	399	411
16	Operation & Maint. - AF	1465	1570	1618
17	Military Personnel	14503	14996	15401
18	RDT&E	95790	102687	113233
19	Reserve Personnel	1417	1465	1509
22	Operation & Maint. - ANG	178826	192774	212572
23	National Guard Personnel - AF	96	99	102
24	Operation & Maint. - AFR	102641	110647	122010
30	MAP- Direct Citation	10	10	11
31	MAP- Common Items-Definitized	0	0	0
32	MAP-Administration	819	847	872
36	Int'l Mil Trng & Educ-IMET	6086	6293	6482
39	Intrafund Reimbursements	175283	198805	219222
42	Fuels Division-AFSF	168	174	179
43	Commissary Division - ASFS	223	231	237
48	Laundry & Dry Cleaning - AFIF	536	554	571
49	Airlift Service - AFIF	190611	204335	225320
51	0700 Family Housing - Def	1216	1304	1343
52	5700 Family Housing - Def	148281	158957	175282
54	Wildlife Conser - Mil Reserv	0	0	0
56	General Gift Fund-AF	20	21	21
58	Commissary Surcharge Collect	8914	9556	9842
60	Medical-Dental Division - AFSF	10	10	11
	<b>Subtotal</b>	<b>941832</b>	<b>1021306</b>	<b>1123177</b>



REIMBURSABLE PROGRAM  
(DOLLARS IN THOUSANDS)

Sales Code	Title	FY 89 Actual	FY 90 Estimate	FY 91 Estimate
Federal				
	61 General Support Division-AFSF	152	163	167
	63 Depot Maintenance Service-AFIF	78459	84108	85790
	65 Systems Support Division-AFSF	9909	10622	909735
	80 Department of the Army	51795	55525	61077
	81 Department of the Navy	57530	61673	68006
	82 OSD & Def Agencies-except DSA	134337	144009	151290
	83 Def Supply Agency-Scrap,Salvage	1243	1333	1373
	84 Def Supply Agency-Other	12638	13547	14943
	85 NASA	60952	65341	72051
	86 Other Federal Agencies	87132	93405	88007
	87 Off-Budget for Fed Agencies	131	136	140
	88 Marines	1766	1826	1881
	89 Trash & Waste Recycle Program	42	43	44
	91 Non-Approp Fund Activities	11021	11395	12569
	Total Federal	1448938	1564431	2590250
Trust Fund				
	69 SARPMA-AFIF	3005	3107	3200
	72 FMS Liquidation	0	0	0
	73 Advances, FMS Executive	218400	225826	232600
	74 Advances, FMS Admin	74468	77000	79310
	76 FMS-Additives	12673	13104	13497
	78 FMS-Reimb-NO-OA	37546	38823	39987
	Total Trust Fund	346092	357859	368595

REIMBURSABLE PROGRAM  
(DOLLARS IN THOUSANDS)

Sales Code	Title	FY 89 Actual	FY 90 Estimate	FY 91 Estimate
Non-Federal				
90	Foreign Gov & Int'l Oper	10847	11628	11895
92	American Red Cross	11	11	12
93	Comm'l Enterprises & Indiv	49293	58067	69855
98	Other Non-US-Govt Agencies	2763	3003	3093
99	Cash Sales (Stock&Indust Fund)	0	0	0
	Total Non-Federal	62914	72710	84855
Total APPN 3400 Operation & Maintenance				
		1857944	1995000	3043700

AIR FORCE - ACTIVE O&M  
SUMMARY OF CONTRACTOR SUPPORT BY WEAPON SYSTEM  
(Dollars in Millions)

This exhibit is provided to track contractor support costs by weapon system for FY89 through FY91. Costs reflect funding as supported in the FY91 President's Budget for Active Air Force O&M. Preparation of this exhibit has been difficult since normal budgeting and execution is by program element, not by weapon system supported.

Several areas of support costs can't be tracked by weapon system. This is especially true for depot maintenance exchangeables workload which consists of thousands of individual items (coded by stock number) and many of these items are common to several weapon systems. Contract depot maintenance costs thus reflect aircraft, missile, and engine programmed depot maintenance work only and modification installation funds in FY 89 only. No contract exchangeable repair costs are identified by weapon system.

Finally, it should be emphasized that this exhibit lists "contractor" costs only and does not reflect a total weapon system cost. A large cost of most weapon systems is worked with organic depot and base level maintenance personnel as well as government furnished material.

AIR FORCE - ACTIVE O&M  
SUMMARY OF CONTRACTOR SUPPORT BY WEAPON SYSTEM  
(Dollars in Millions)

TYPE OF SUPPORT	O&M or Ind. Fund	FY 1989	FY 1990	FY 1991
WEAPON SYSTEM: B-52				
SUSTAINING ENGINEERING	O&M	8.6	10.0	9.8
CONTRACT ENGINEER TECH SVCS	O&M	1.6	2.6	2.7
CONTRACTOR LOGISTICS SUPPORT	O&M	10.5	20.8	23.1
INTERIM CONTRACTOR SUPPORT	O&M	13.0	27.8	21.1
DEPOT MAINTENANCE	IF	.3	0	0
WEAPON SYSTEM TOTAL		34.0	61.2	56.7

Sustaining Engineering: Support includes feasibility studies on proposed or directed modifications; integration, analysis, and liaison on all sub-systems on the B-52 such as missiles, fire control, electronic counter measures (ECM), offensive avionics system (OAS), etc; conduct investigations and provide corrective action on materiel improvement projects; maintain engineering data and drawings; support accident/incident investigation and assistance to inflight emergencies; support flight tests; OAS system support, AN/ALQ-153 hardware support, AN/ALQ-172(V) electronic warfare software support, and other software support. Funding is slightly reduced as the OAS Block II update moves into the testing and integration phase.

Contract Engineering Technical Services (CETS): CETS is provided for intermediate level automated manual system, AN/ASQ-151 electro-optical viewing system, AN/ASQ-38(V) bomb navigation system, and Offensive Avionics System and associated support equipment.

Contractor Logistics Support (CLS): CLS provides for training device computer support, data analysis programming group, and operational and intermediate training device support. Slight increase in FY 91 supports relocation of an operational Flight Trainer from Pease AFB, NH to Eaker AFB, AR.

AIR FORCE - ACTIVE O&M  
SUMMARY OF CONTRACTOR SUPPORT BY WEAPON SYSTEM  
(Dollars in Millions)

Interim Contractor Support (ICS): ICS is provided for the Integrated Conventional Stores Management System (ICSMS), Strategic Radar modification, Common Strategic Rotary Launcher, the B-52 Modular Intermediate Depot Automatic Test Set (MIDATS), and the ALQ-172(V) Electronic Countermeasures System. The bulk of this support (78 percent) is associated with the ALQ-172(V) and its support equipment. FY90 is the peak ICS demand year for this system as it will be ramping down hereafter. This trend is also maintained by several smaller contracts.

Depot Maintenance: This funding profile shows a decrease in contract work. All modification installation funding from FY 90 on out has been transferred from the depot maintenance account to the central procurement account.

TYPE OF SUPPORT	O&M or Ind. Fund		FY 1989	FY 1990	FY 1991
	O&M	Ind. Fund			
WEAPON SYSTEM: SHORT RANGE ATTACK MISSILE (SRAM)					
SUSTAINING ENGINEERING			3.4	6.3	6.0
CONTRACT ENGINEER TECH SVCS			.1	.2	.2
WEAPON SYSTEM TOTAL			3.5	6.5	6.2

Sustaining Engineering: Support includes System Integration Laboratory (SIL) and system engineering support. SIL contractor support permits investigation of service revealed deficiencies through duplication of reported faults and testing of proposed solutions. System engineering support provides skills to solve problems such as corrosion on the missile case, system testing inadequacies, motor propellant aging surveillance, flight test anomaly investigation, and electromagnetic interference/pulse test. Slight decrease in FY 91 is due to completion of aging surveillance.

Contract Engineering Technical Services (CETS): CETS will provide testing, analysis and software development required to support SRAM as part of the Air Force inventory. Lack of CETS support would impact Single Integrated Operation Plan (SIOP) capability. CETS support is critical to the identification and correction of deficiencies in the system.

AIR FORCE - ACTIVE O&M  
SUMMARY OF CONTRACTOR SUPPORT BY WEAPON SYSTEM  
(Dollars in Millions)

TYPE OF SUPPORT	O&M or Ind. Fund	FY 1989	FY 1990	FY 1991
WEAPON SYSTEM: AIR LAUNCHED CRUISE MISSILE				
SUSTAINING ENGINEERING	O&M	7.8	11.2	8.7
CONTRACT ENGINEER TECH SVCS	O&M	.7	.7	.7
DEPOT MAINTENANCE (Engines Only)	IF	4.9	6.8	5.8
WEAPON SYSTEM TOTAL		13.4	18.7	15.2

Sustaining Engineering: Contract support is for updating peculiar ALOM simulation software, retest OK investigation, service revealed deficiencies investigation, investigation of anomalies discovered during operational test flights, and investigation of potential improvements to the ALOM mission planning software. FY 91 decrease is due to reduction in testing requirements.

Contract Engineer , technical Services (CETS): Provides engineering and technical support, testing, analysis and software development required to support ALOM. CETS is critical to the identification and correction of deficiencies in the system.

Depot Maintenance: Reflects the engines programmed for Contract Depot Maintenance.

TYPE OF SUPPORT	O&M or Ind. Fund	FY 1989	FY 1990	FY 1991
WEAPON SYSTEM: B-1B				
SUSTAINING ENGINEERING	O&M	36.8	78.7	85.7
CONTRACT ENGINEER TECH SVCS	O&M	8.5	3.0	2.9
CONTRACTOR LOGISTICS SUPPORT	O&M	8.1	21.3	22.5
INTERIM CONTRACTOR SUPPORT	O&M	93.5	92.9	75.4
DEPOT MAINTENANCE	IF	8.0	2.9	3.1
WEAPON SYSTEM TOTAL		154.9	198.8	189.6

AIR FORCE - ACTIVE O&M  
SUMMARY OF CONTRACTOR SUPPORT BY WEAPON SYSTEM  
(Dollars in Millions)

Sustaining Engineering: Sustaining Engineering is required for mission critical programs that include Survivability/Vulnerability, Reliability and Maintainability Assessment, Aircraft Structural Integrity, Stores Compatibility, Mechanical Systems and Components, Electrical Systems and Components, Avionics, Automated Test Equipment, Software Support, and aircrew training device compatibility with the weapon system. Initial sustaining engineering is provided in FY89 with full year support beginning in FY90. (This program was previously funded in RDT&E and Procurement appropriations.) Increase in FY91 is for systems engineering and avionics support required to maintain mission readiness.

Contract Engineering Technical Services (CETS): CETS are required for peculiar support equipment orientation and includes avionics test equipment and secondary power equipment.

Contractor Logistics Support (CLS): CLS for the B-1B simulator system includes support for the Offensive/Defensive Station Mission Trainers, Software Support Center Equipment, Cockpit Procedures Trainers, Data Base Transportation System, associated data, services, and facilities.

Interim Contractor Support (ICS): Support is provided for peculiar support equipment and an inventory of 96 aircraft at 4 operating bases. FY 91 thru FY 93 will be the transition period as the Air Force accumulates its organic capability for this strategic weapon system.

Depot Maintenance: In FY 1989, fifteen aircraft were input for repair/changeout of the egress system. The Birdstrike Survivability safety modification completes installation in FY 1989. The decrease of contract funding through FY 1991 is due to this aircraft moving "in-house" and maintenance performed organically.

TYPE OF SUPPORT	O&M or Ind Fund		FY 1989	FY 1990	FY 1991
WEAPON SYSTEM: Classified Programs					
INTERIM CONTRACTOR SUPPORT	O&M		0	3.6	5.3
CONTRACTOR LOGISTICS SUPPORT	O&M		200.3	184.3	153.0
WEAPON SYSTEM TOTAL			200.3	187.9	158.3

AIR FORCE - ACTIVE O&M  
SUMMARY OF CONTRACTOR SUPPORT BY WEAPON SYSTEM  
(Dollars in Millions)

Interim Contractor Support (ICS): Contract efforts include all required depot, intermediate, and organizational level support costs for new or recently upgraded systems.

Contractor Logistics Support (CLS): Contract efforts include programmed depot maintenance, contractor field support, and operation of supply activities supporting the depot and operating locations.

TYPE OF SUPPORT	O&M or Ind. Fund	FY 1989	FY 1990	FY 1991
WEAPON SYSTEM: KC-135				
SUSTAINING ENGINEERING	O&M	3.2	6.4	3.9
CONTRACTOR LOGISTICS SUPPORT	O&M	1.2	1.8	5.7
INTERIM CONTRACTOR SUPPORT	O&M	0	0	0
DEPOT MAINTENANCE	IF	56.1	44.2	40.7
WEAPON SYSTEM TOTAL		60.5	52.4	50.3

Sustaining Engineering: Support includes developing new damage tolerance criteria. The engineering emphasis is on aircraft structural integrity program and systems engineering. FY 91 decrease is due to completion of an effort to incorporate KC-135R tasks.

Contractor Logistics Support (CLS): Support is provided for the C-135B mission flight simulator (MFS) and the KC-135A/R Operational Flight Trainers (OFT). It includes contractor operated and maintained base supply (OOMBS), parts exchange, field support, and bench stock for the simulators/trainers. The increase is due to loss of organic capability due to the phaseout of the 341XX (aircrew/missile training device) career field.

Interim Contractor Support (ICS): ICS was required to support the KC-135 tanker re-engine/modernization program until spares, depot support equipment and technical orders were developed and delivered. FY88 was the last year of support.

Depot Maintenance: This provides for Programmed Depot Maintenance (PDM), modification installation in FY 89, and other maintenance of the KC-135s, including KC-135A/E/Q/R. The decrease between FY 1989 and FY 1990 is due to the transfer of installation funds to the central procurement account.



AIR FORCE - ACTIVE O&M  
SUMMARY OF CONTRACTOR SUPPORT BY WEAPON SYSTEM  
(Dollars in Millions)

TYPE OF SUPPORT	O&M or Ind. Fund	FY 1989	FY 1990	FY 1991
WEAPON SYSTEM: MINUTEMAN (LGM-30)				
SUSTAINING ENGINEERING	O&M	80.4	75.1	64.4
CONTRACT ENGINEER TECH SVCS	O&M	.8	.8	.8
CONTRACTOR LOGISTICS SUPPORT	O&M	7.0	8.8	9.3
INTERIM CONTRACTOR SUPPORT	O&M	.3	.3	.1
DEPOT MAINTENANCE	IF	81.6	61.9	60.2
WEAPON SYSTEM TOTAL		170.1	146.9	134.8

Sustaining Engineering: Support includes several sustaining engineering efforts. One effort provides engineering/technical services required to support the operational fleet in the missile guidance set and flight controls. Another contract is for the development, production, and delivery of test program sets designed to test the electronic drawers of the Minuteman operational ground equipment and maintenance ground equipment. Another contract provides weapon system engineering support in response to delivery order work assignments to resolve problems encountered at operational wings, system requirement analyses, accomplish systems and hardware studies on aerospace ground equipment, operational ground equipment, depot maintenance ground equipment, Hill Engineering Test Facility, and aerospace vehicle equipment. Another contract is an ongoing engineering effort to maintain and modify the operational Minuteman weapon system. Software support provides engineering to develop code and checkout Minuteman III operational ground program in support of the expanded execution plan; modify the operational executive program and the nuclear safety technical evaluation on the Minuteman; and modify the Minuteman III operation and support software. FY 91 decrease is due to reduction in software requirements.

Contract Engineering Technical Services (CETS): Provides integration for all modified software developed by various contractors and modify appropriate trainers to be compatible with the modified operational software. Also includes contract field support at six Minuteman bases consisting of reliability studies of the missile guidance sets and training of Air Force personnel.

Contractor Logistics Support (CLS): Support is provided for the Expanded Missile Data Analysis System (EMDAS) and the Minuteman Trainer. EMDAS is used to gather missile maintenance and inertial performance data.

AIR FORCE - ACTIVE O&M  
SUMMARY OF CONTRACTOR SUPPORT BY WEAPON SYSTEM  
(Dollars in Millions)

Interim Contractor Support (ICS): Contractor provides support for LGM-30 MF Radio until organic repair capability is achieved.

Depot Maintenance: Contractor provides support to the Minuteman II and III stage II motor washout program. Contract sources also provide direct support of the SPLICE CASE FORCE modification which corrects deficient cable design and installation, severe cable corrosion, and problems associated with an aging missile launch and control infrastructure. The decrease in FYs 90 and 91 is based on the modification installation funding transfer to the central procurement account.

TYPE OF SUPPORT	O&M or Ind. Fund	FY 1989	FY 1990	FY 1991
WEAPON SYSTEM: PEACEKEEPER (LGM-118)				
SUSTAINING ENGINEERING	O&M	0	13.7	15.8
CONTRACT ENGINEER TECH SVCS	O&M	.7	.4	.6
CONTRACTOR LOGISTICS SUPPORT	O&M	2.0	14.0	16.1
INTERIM CONTRACTOR SUPPORT	O&M	6.2	0	0
DEPOT MAINTENANCE	IF	1.0	1.0	1.1
WEAPON SYSTEM TOTAL		9.9	29.1	33.6

Sustaining Engineering: Incremental PMRT begins in FY 1990. Includes support for integrated assessment of reliability, maintainability, aging and surveillance, accuracy, availability and nuclear hardness. Support includes survivability/vulnerability program, assessment, system engineering and technical assistance, ordnance engineering, mechanical engineering, electrical engineering, and software support. Increase in FY 91 supports corrosion control analysis.

Contract Engineering Technical Services (CETS): Provides services on new support and test equipment which includes specific force integral receiver, depot support equipment, inertial measurement unit, third generation gyro, guidance and control, arming/fuzing, and reentry.

AIR FORCE - ACTIVE O&M  
SUMMARY OF CONTRACTOR SUPPORT BY WEAPON SYSTEM  
(Dollars in Millions)

Contractor Logistics Support (CLS): Provides support for the Peacekeeper trainers and related repair/servicing including contractor operated/maintained base supply (COMBS), parts exchange, field support, and bench stock. Instrumentation and Flight Safety System (IFSS) support begins in FY89 and consists of vehicle-borne tracking, safety, telemetry and data acquisition devices of the Airborne Vehicle Equipment (AVE), and Support Equipment comprised of ground-based test and data processing equipment.

Interim Contractor Support (ICS): Provides support for depot repair of missile components, AVE, and support equipment. This weapon system is experiencing guidance and control system failures in excess of organic repair capability. ICS requirement decreases as maintenance support equipment items are delivered.

Depot Maintenance: Work includes major unprogrammed maintenance of LGM-118A missiles in the launch environment and responses to requests for depot level assistance. This will include removal and replacement of all operational reentry systems, failed missile stages, and operational test missiles.

TYPE OF SUPPORT	O&M or Ind. Fund	FY_1989	FY_1990	FY_1991
WEAPON SYSTEM: EC-135 VVABNCP (WORLDWIDE AIRBORNE COMMAND POST)				
SUSTAINING ENGINEERING	O&M	.6	.7	2.3
INTERIM CONTRACTOR SUPPORT	O&M	2.1	1.3	1.7
DEPOT MAINTENANCE	IF	1.9	1.5	1.6
WEAPON SYSTEM TOTAL		4.6	3.5	5.6

Sustaining Engineering: Support includes electromagnetic compatibility (ECM) engineering, frequency management, and EMC measurement support of the World-Wide Airborne Command Post (VVABNCP) system program office. Also included is engineering support for aspects of nuclear survivability, system engineering and integration support, and conducting cost/technical trade studies to project, initiate, review, and implement VVABNCP operations and maintenance requirements. Increase is for long range planning, modification planning and Digital Airborne Intercommunications Switching System (DAISS) integration support facility.

AIR FORCE - ACTIVE O&M  
SUMMARY OF CONTRACTOR SUPPORT BY WEAPON SYSTEM  
(Dollars in Millions)

Interim Contractor Support (ICS): Support is provided for six EC-135 systems including the Ground Wave Emergency Network (GWEN), KG-84A, Pacer Link I&II, EC-135 Peacekeeper, WIM, and WABNCP ADP. ICS is required to provide repair components until organic maintenance is available. Pacer Link I operational and intermediate level ICS is required only through FY89, but depot level ICS is required through FY91.

Depot Maintenance: Installation of the Pacer Link modification on the EC-135 (Worldwide Airborne Command Post) had its final kit proof and first production aircraft in FY 1989 with modification installation funding transferring to the central procurement account in FY's 1990 and 1991.

TYPE OF SUPPORT	O&M or Ind. Fund	FY 1989			FY 1990			FY 1991		
WEAPON SYSTEM: DEFENSE SUPPORT PROGRAM										
CONTRACT ENGINEERING TECH SVCS	O&M			0		5.2			5.1	
INTERIM CONTRACTOR SUPPORT	O&M			1.7		.8			0	
WEAPON SYSTEM TOTAL				1.7		6.0			5.1	

Contract Engineering Technical Services (CETS): Provides proficiency training, technical guidance in the evaluation of unusual field problems, and emergency technical assistance.

Interim Contractor Support (ICS): Required for commercial computer hardware and program unique software. Upgrades to the systems included in the DSP are being accomplished over such a short timeframe that the support equipment, tech data, and spares cannot keep pace. ICS is needed for spares support and support equipment until organic capability is developed for operations in FY 1991.

TYPE OF SUPPORT	O&M or Ind. Fund	FY 1989			FY 1990			FY 1991		
WEAPON SYSTEM: F-106										
SUSTAINING ENGINEERING	O&M			0		.3			0	
CONTRACT ENGINEERING TECH SVCS	O&M			.1		.3			.7	
WEAPON SYSTEM TOTAL				.1		.6			.7	

AIR FORCE - ACTIVE O&M  
SUMMARY OF CONTRACTOR SUPPORT BY WEAPON SYSTEM  
(Dollars in Millions)

**Sustaining Engineering:** Contractual engineering efforts are being conducted in FY90 to keep the F-106/QF-106 safe to fly and operationally supportable. Primary emphasis is placed on safety analysis where the contractor will discover and evaluate by laboratory analysis the cause of the mishap. This action will assure flight safety and support the actions of Safety Investigation Boards (SIB) and Materiel Safety Task Groups (MSTG). Effort will be completed in FY90.

**Contract Engineering Technical Services (CETS):** Provides on-site training in evaluating unusual problems.

TYPE OF SUPPORT	O&M or Ind. Fund	FY 1989			FY 1990		FY 1991	
WEAPON SYSTEM: F-4 and RF-4								
SUSTAINING ENGINEERING	O&M	4.8			5.8		.2	
CONTRACT ENGINEER TECH SVCS	O&M	1.2			1.8		1.9	
CONTRACTOR LOGISTICS SUPPORT	O&M	7.1			7.8		8.0	
INTERIM CONTRACTOR SUPPORT	O&M	1.1			.8		1.0	
DEPOT MAINTENANCE	IF	19.5			16.4		16.1	
WEAPON SYSTEM TOTAL		33.7			32.6		27.2	

**Sustaining Engineering:** Includes engineering services in the area of structural, electrical, mechanical, and fluid design; hardware and software avionics; aerodynamics; aircraft/stores compatibility, thermodynamics, and propulsion technical integration; stress, weights, structural dynamics, material and processes, and load engineering technology; system/nuclear safety analysis; mishap investigation, program coordination; on-site data collections, analysis of field conditions, and assistance in development of computer programs for reliability centered maintenance program; and feasibility studies, and flight manual maintenance support. The FY 91 decrease reflects restructuring of constrained O&M resources.

**Contract Engineering Technical Services (CETS):** Provides technical services for airframe support equipment, AN/ALQ-186(V), and PAVE TACK pod in support of the F-4. Also provides proficiency training, technical guidance in the evaluation of unusual field problems, and emergency technical assistance.

AIR FORCE - ACTIVE O&M  
SUMMARY OF CONTRACTOR SUPPORT BY WEAPON SYSTEM  
(Dollars in Millions)

Contractor Logistics Support (CLS): Support is provided for F-4E/G Weapon Systems Trainers and Operational Flight Trainers. Includes contractor operated and maintained base supply, parts exchange and transportation, field support, bench stock, and modification installations. This support coincides with Ready For Training of the Flight Simulator Upgrade Program. The Technical Software Support Center also falls under CLS.

Interim Contractor Support (ICS): Provides support for the Programmed Update Program (PUP) for the APR-38 used on the Wild Weasel F-4G aircraft. The PUP ensures software and hardware changes necessary to ensure the APR-38 can perform its mission of suppression of enemy air defense systems by updating its electronic order of battle. Also provides support for the RF-4C Navigation Weapons Delivery System (NWDS) consisting of depot level repair required following completion of trial installation of the NWDS. Contractor has repair responsibility until the warranty expires.

Depot Maintenance: Approximately 40% of Analytical Condition Inspections (ACI) and Programmed Depot Maintenance (PDM) for the F-4G/RF-4C are performed by contractor. The decrease between FY 1989 and FY 1990 is due to the transfer of the modification installation funds to the central procurement account.

TYPE OF SUPPORT	O&M or Ind. Fund	FY		
		1989	1990	1991
WEAPON SYSTEM: F-111/FB-111/EF-111				
SUSTAINING ENGINEERING	O&M	19.6	21.0	20.5
CONTRACT ENGINEER TECH SVCS	O&M	1.0	1.1	.9
CONTRACTOR LOGISTICS SUPPORT	O&M	7.2	11.0	11.4
INTERIM CONTRACTOR SUPPORT	O&M	18.2	14.1	21.7
DEPOT MAINTENANCE	IF	67.5	58.2	91.8
WEAPON SYSTEM TOTAL		113.5	105.4	146.3

AIR FORCE - ACTIVE O&M  
SUMMARY OF CONTRACTOR SUPPORT BY WEAPON SYSTEM  
(Dollars in Millions)

**Sustaining Engineering:** Tasks include investigation and evaluation of the background and circumstances concerning accidents/incidents and service revealed deficiencies; conduct feasibility studies, special studies, and studies of modifications; conduct system and subsystem tests to determine operational capability and efficiency; prepare new/revised drawings; provide for engineering services in identifying and resolving high demand rates and low mean time between failures (MTBF) on the AN/APQ-110/128/134/ 146 terrain following radar; install the AN/ARC-190 high frequency single side band radio in the F-111 weapon system trainers; provide Independent Validation and Verification (IVV) assessment of the Unit Under Test (UUT), test program sets, and associated support software; assessment of the new or modified automatic test equipment hardware, support equipment, and software manufactured for the F-111 Avionics Intermediate Shops (AIS); and provide IV&V of software and software/hardware integration to the EF/F/FB-111 simulators and F/FB-111 software support centers.

**Contract Engineering Technical Services (CETS):** Technical services provided include intermediate automatic test equipment, aircraft avionics system and avionics modernization program system.

**Contractor Logistics Support (CLS):** Includes contractor operated and maintained base supply, parts exchange/transportation, field support, bench stock, and modification installations on the F-111A/D/E/F, EF-111A, and FB-111A weapon system trainers.

**Interim Contractor Support (ICS):** Support is provided for the F-111 Tactical Jamming System (TJS), the AN/APQ-169 Attack Radar Set, the AN/APQ-171 Terrain Following Radar (TFR), the Digital Flight Control systems, the ALQ-99 receiver/transponder, the ALQ-137 countermeasures system, and the F-111 Avionics Intermediate Shop-Replacement (AIS-R). The decrease is related to the development of limited organic capability as support equipment and data are delivered. Organic capability is not projected to be fully developed until mid FY93 for the Digital Flight Control Systems and the end of FY95 for the AIS-R when support equipment and data are delivered. The increase between FY 90 and FY 91 is due to 37 more supported aircraft receiving the modification which installs the TFR.

**Depot Maintenance:** The decrease in FY 1990 is due to four fewer F-111E aircraft input for PDM into a contractor facility. In FY 1991, part of the increase is also due to the increase of F-111F aircraft into the British Aerospace contractor facility.

AIR FORCE - ACTIVE O&M  
SUMMARY OF CONTRACTOR SUPPORT BY WEAPON SYSTEM  
(Dollars in Millions)

TYPE OF SUPPORT	O&M or Ind. Fund	FY 1989	FY 1990	FY 1991
WEAPON SYSTEM: F-15				
SUSTAINING ENGINEERING	O&M	12.7	15.1	16.3
CONTRACT ENGINEER TECH SVCS	O&M	5.4	3.6	2.9
CONTRACTOR LOGISTICS SUPPORT	O&M	16.7	12.9	19.3
INTERIM CONTRACTOR SUPPORT	O&M	18.6	15.4	26.5
DEPOT MAINTENANCE	IF	30.7	31.4	34.1
WEAPON SYSTEM TOTAL		84.1	78.4	99.1

Sustaining Engineering: Provides technical support for USAF radar Operational Flight Programs; tests the response of the APG-63 operational flight program to foreign electronic counter-measures (ECM); develops block cycle changes to F-15 central computer and radar data processor operational flight programs; supports the avionics integrated support facility; provides aircraft stores compatibility; supports a full-scale vibration program for the F-15 vertical stabilizers; and provides flight test data on the force and strain levels. FY 91 increase is for software support for Unit Under Test (UUT) program which designs test requirements.

Contract Engineering Technical Services (CETS): Includes automatic test equipment, avionics integrated support specification radar (APG-63), aircraft secondary power, F100/F200 engine fuel air accessibility, TF39/T56 integrated blade inspection of F100 engine, field/depot level autometrics manual test system, data communication terminal, integrated communication control panels, F100 engine retirement cause, support on the F100PW100, PW200, PW220 engine systems.

Contractor Logistics Support (CLS): Provides contractor maintenance for F-15A/B operational flight trainers two F-15C/D operational flight trainers and one F-15E weapon system trainer. CLS for these trainers include contractor operated and maintained base supply, parts exchange and transportation, field support, bench stock, and modification installations. The FY 91 increase results from the loss of organic capability due to phase out of the 341XX career field.



AIR FORCE - ACTIVE O&M  
SUMMARY OF CONTRACTOR SUPPORT BY WEAPON SYSTEM  
(Dollars in Millions)

Interim Contractor Support (ICS): Includes repair requirements on F-15s with the Multi-Stage Improvement Program (MSIP) modification. Prime equipment design instability and the resultant delay in depot support equipment development drives the need for ICS. ICS is provided for the ALQ-135C-Band and ALR-56C electronic warfare systems as well as the Tactical Electronic Warfare System (TEWS), the TEWS Intermediate Support System (TISS), and the F-15E Integrated Antenna Test Station (IATS). The FY 1991 increase is the result of support of full operations with these systems. Significant backlogs are expected in FY 1990 since this program is only 64 percent funded.

Depot Maintenance: Although, the number of aircraft through PDM remain relatively constant, the scope of the work package increased due to addition of wing spar crack repair. This structural problem was discovered during the first PDM inputs in FY 1989 and the outyears have been adjusted.

TYPE OF SUPPORT	O&M or Ind. Fund	FY		
		1989	1990	1991
WEAPON SYSTEM: A-10				
SUSTAINING ENGINEERING	O&M	4.3	3.9	3.5
CONTRACT ENGINEER TECH SVCS	O&M	1.0	1.4	.8
CONTRACTOR LOGISTICS SUPPORT	O&M	.6	2.8	3.8
DEPOT MAINTENANCE	IF	.3	.1	.1
INTERIM CONTRACTOR SUPPORT	O&M	0	0	0
WEAPON SYSTEM TOTAL		6.2	8.2	8.2

Sustaining Engineering: Provide contractor assistance for the service life monitoring program (SLMP). Service revealed deficiencies and safety related defects undergo intensive analytical engineering studies to identify the proximate cause of the problems. Flight test includes instrumentation support, data reduction support, engineering analysis support, LASTE engineering range support, and target support. FY 91 decreases due to reduction in flight test support requirements.

AIR FORCE - ACTIVE O&M  
SUMMARY OF CONTRACTOR SUPPORT BY WEAPON SYSTEM  
(Dollars in Millions)

Contract Engineering Technical Service (CETS): Provides technical services on systems and equipment associated with the A-10. These include TF-34-GE-100 engine, KC-135 turbine engine monitoring system (TEMS) airborne electronics, KC-135R TEMS intermediate and depot level repair support equipment, and A-7D/K, AN/AAS-35(V) target identifier. Decrease in FY 91 is due to termination of the TF-34-GE-100 engine contract.

Contractor Logistics Support (CLS): Provides contractor support for A-10 operational flight trainers and includes contractor operated and maintained base supply, parts exchange and transportation, field support, bench stock, and modification installations. FY 91 increase is driven by modification installations.

Interim Contractor Support (ICS): Organic capability on the Inertial Navigation System and Inertial Navigation Unit within the A-10 was established in Mar 88 when intermediate level support equipment was received.

Depot Maintenance: The FY 1989 funds represent modification installation funding. In FY's 90 and 91 mod installation funds were transferred to the central procurement account.

TYPE OF SUPPORT	O&M or Ind. Fund	FY		
		1989	1990	1991
WEAPON SYSTEM: F-16				
SUSTAINING ENGINEERING	O&M	12.2	11.4	14.6
CONTRACT ENGINEER TECH SVCS	O&M	5.4	4.3	4.4
CONTRACTOR LOGISTICS SUPPORT	O&M	6.2	8.3	9.6
INTERIM CONTRACTOR SUPPORT	O&M	7.8	11.5	13.9
DEPOT MAINTENANCE	IF	.9	.5	.2
WEAPON SYSTEM TOTAL		32.5	36.0	42.7

AIR FORCE - ACTIVE O&M  
SUMMARY OF CONTRACTOR SUPPORT BY WEAPON SYSTEM  
(Dollars in Millions)

**Sustaining Engineering:** Provides engineering assistance to evaluate proposed changes, explore alternate solutions, and implement desirable alternatives to the F-16 radar (AN/APG-66), semi-conductor parts control analysis, and avionics system engineering. Provides engineering services for analysis of reported material deficiency reports, teardown deficiency reports, mechanical systems engineering, stores certification, and the aircraft structural integrity program. Also included is software engineering support for the operational flight program, avionics intermediate shop and depot software support. Increase is due to planned mid-life update modification planning and additional radar testing.

**Contract Engineering Technical Services (CETS):** Provides technical services for airframe escape system landing gear equipment, fly by wire electronic control, flight simulations, and ejection seats. On-site proficiency training, technical guidance and advice is provided to operational field commands.

**Contractor Logistics Support (CLS):** Provides support for the F-16A/B Operational Flight Trainer (OFT) and the F-16C/D weapon system trainer. Operational support includes contractor operated and maintained base supply, parts exchange and transportation, field support, bench stock, and modification installations. Increase in FY 91 supports modification installation.

**Interim Contractor Support (ICS):** Support provides for repair of avionics systems, exchangeables, and support equipment. Funding increases as programmed deliveries increase the number of F-16s in the Air Force inventory to be supported because no organic repair of Block 40/50 improvements capability.

**Depot Maintenance:** This aircraft does not currently have a scheduled PDM program. The major workload on these aircraft is modification installation and other maintenance. The decrease between FY 1989 and FY 1990 is due to the transfer of modification installation funds to the central procurement account. The decrease between FYs 90 and 91 is attributed to painting of aircraft in FY 90.

AIR FORCE - ACTIVE O&M  
SUMMARY OF CONTRACTOR SUPPORT BY WEAPON SYSTEM  
(Dollars in Millions)

TYPE OF SUPPORT	O&M or Ind. Fund	FY		
		1989	1990	1991
WEAPON SYSTEM: TACTICAL AIR-TO-AIR INTERCEPT MISSILES (AIM-7 & AIM-9)				
SUSTAINING ENGINEERING	O&M	.2	1.4	1.5
CONTRACT ENGINEER TECH SVCS	O&M	0	.3	.3
WEAPON SYSTEM TOTAL		.2	1.7	1.8

Sustaining Engineering: Contract support includes performance testing of the aged AIM-7 Sparrow explosive components (rocket motors, warheads, and fuzing components). FY89 testing expands to include the AIM-9. Increase is due to initiation of new tasks involving missile reliability improvements, power supply and test set equipment development and enhancement.

Contract Engineering Technical Support (CETS): Provides technical services for the AIM-9E/J/L/M/N/P, LAU-114, AIM-7A support equipment.

TYPE OF SUPPORT	O&M or Ind. Fund	FY		
		1989	1990	1991
WEAPON SYSTEM: TACTICAL AIR-TO-GROUND MISSILES (AGM-45 & AGM-78)				
SUSTAINING ENGINEERING	O&M	.1	.3	2.6
WEAPON SYSTEM TOTAL		.1	.3	2.6

Sustaining Engineering: Provides AGM missile components reliability tests and analysis. This support assures any degradation affecting system readiness is detected and corrected before the Tactical Air Force mission capability is impaired. Contract support is a joint venture with the Navy who has experienced management responsibility for the AGM-45 and AGM-78. Increase is due to significant software development and systems engineering efforts involved with HARM system reliability and performance enhancement programs.

AIR FORCE - ACTIVE O&M  
SUMMARY OF CONTRACTOR SUPPORT BY WEAPON SYSTEM  
(Dollars in Millions)

TYPE OF SUPPORT	O&M or Ind. Fund	FY 1989	FY 1990	FY 1991
WEAPON SYSTEM: KC-10				
CONTRACTOR LOGISTICS SUPPORT	O&M	55.0	70.4	81.4
WEAPON SYSTEM TOTAL		55.0	70.4	81.4

Contractor Logistics Support (CLS): Support includes contractor operated and maintained base supply, flying hour support, base activation, out of scope support, engineering support, and modification installations. Increase supports flying hours increase in FY 91.

TYPE OF SUPPORT	O&M or Ind. Fund	FY 1989	FY 1990	FY 1991
WEAPON SYSTEM: A-7				
SUSTAINING ENGINEERING	O&M	.3	0	0
INTERIM CONTRACTOR SUPPORT	O&M	0	.3	.4
WEAPON SYSTEM TOTAL		.3	.3	.4

Sustaining Engineering: Support for active Air Force ended in FY 89.

Interim Contractor Support (ICS): ICS will be used to support the A-7 Corsair Avionics System Tester (CAST) while organic support is being developed. It will provide on-site repair/overhaul services and in-plant depot level maintenance. Verified tech orders will be delivered with each test system.

Delivery schedule for FY90 and MTBF-VT will commence six months after. This effort will continue into FY91.

AIR FORCE - ACTIVE O&M  
SUMMARY OF CONTRACTOR SUPPORT BY WEAPON SYSTEM  
(Dollars in Millions)

TYPE OF SUPPORT	O&M or Ind. Fund	FY 1989	FY 1990	FY 1991
WEAPON SYSTEM: MAVERICK (AGM-65) MISSILE				
SUSTAINING ENGINEERING	O&M	.2	2.8	1.9
DEPOT MAINTENANCE		.1	.2	.2
WEAPON SYSTEM TOTAL		.3	3.0	2.1

Sustaining Engineering: Support includes continued maintenance of the G300B data system and data analysis and increased reliability of the TGM-65A/B through modification improvements. Other efforts include failure analysis and system assessment. FY 91 decrease reflects completion of the launcher incorporation effort.

Depot Maintenance: Contractor support for periodic inspection of up-round missile in extended storage. If these inspections indicate a requirement to repair either the hydraulic actuating system (HAS) or the guidance and control system (G&C), these components are removed and forwarded to the depot for repair.

TYPE OF SUPPORT	O&M or Ind. Fund	FY 1989	FY 1990	FY 1991
WEAPON SYSTEM: AMRAAM (AIM-120)				
CONTRACT ENGINEERING TECH SVCS	O&M	.1	.4	.4
INTERIM CONTRACTOR SUPPORT	O&M	0	.7	1.5
WEAPON SYSTEM TOTAL		.1	1.1	1.9

Interim Contractor Support (ICS): The Advanced Medium Range Air-to-Air Missile (AMRAAM) has been designated a major acquisition program currently in the full scale development phase of acquisition. The AMRAAM will be introduced into the inventory for deployment beginning the first quarter FY90. It will be used on the F-14, F-15, F-16, and F-18. Until an organic facility is established in FY94, ICS must be used.

AIR FORCE - ACTIVE O&M  
SUMMARY OF CONTRACTOR SUPPORT BY WEAPON SYSTEM  
(Dollars in Millions)

TYPE OF SUPPORT	O&M or Ind. Fund	FY 1989	FY 1990	FY 1991
WEAPON SYSTEM: GROUND LAUNCHED CRUISE MISSILE (BGM-109)				
SUSTAINING ENGINEERING	O&M	1.8	3.7	3.8
CONTRACT ENGINEERING TECH SVCS	O&M	.7	0	0
CONTRACTOR LOGISTICS SUPPORT	O&M	7.2	3.8	3.6
OTHER	O&M	.5	.5	0
WEAPON SYSTEM TOTAL		10.2	8.0	7.4

Sustaining Engineering: Support is initiated to include developing the reliability analysis/tracking program. Requirements also include Nuclear Safety Cross-Check Analysis and Independent Validation and Verification of the nuclear critical components of the GLOM software and firmware. The Intermediate Nuclear Forces (INF) Treaty has changed the emphasis to engineering support of the system drawdown and destruction.

Contractor Logistics Support (CLS): Provides management services, contractor acquired property, and depot repair of missiles at continental United States (CONUS) locations. The decrease is a net effect whereby recertifications, test support, and unscheduled maintenance costs decrease due to the INF Treaty and subsequent drawdown.

Other: Reflects CONUS contractor support and training.

TYPE OF SUPPORT	O&M or Ind. Fund	FY 1989	FY 1990	FY 1991
WEAPON SYSTEM: ALQ-131				
INTERIM CONTRACTOR SUPPORT	O&M	4.5	2.6	1.2
WEAPON SYSTEM TOTAL		4.5	2.6	1.2

AIR FORCE - ACTIVE O&M  
SUMMARY OF CONTRACTOR SUPPORT BY WEAPON SYSTEM  
(Dollars in Millions)

Interim Contractor Support (ICS): Contractor support is required for the AN/ALQ-131 Block II EOM POD and the ALQ-131 Receiver Processor. The ALQ-131 Block II pods are externally mounted on frontline fighter aircraft and used to jam enemy threats. ICS is required to support the pod system (including support equipment) for total maintenance and logistics. The ALQ-131 Receiver Processor is a module to enhance the capability of the Block II EOM pods. The receiver processor recognizes enemy threats, prioritizes and selects between them and concentrates jamming power against the highest priority threat. ICS funds are also required pending development of an organic depot level maintenance capability. Due to numerous design changes to meet the ever changing electronic counter measures (ECM) threat environment it is more economical early in the life of this system to retain contractor support versus develop an organic support that becomes obsolete almost immediately.

TYPE OF SUPPORT	O&M or Ind. Fund	FY 1989	FY 1990	FY 1991
WEAPON SYSTEM: HARPOON (AGM-84) MISSILE				
DEPOT MAINTENANCE	IF	.9	.9	1.3
WEAPON SYSTEM TOTAL		.9	.9	1.3

Depot Maintenance: Contractor support for increased number of AGM-84 (Harpoon) recertifications and improved fuse modification.

TYPE OF SUPPORT	O&M or Ind. Fund	FY 1989	FY 1990	FY 1991
WEAPON SYSTEM: E-3				
SUSTAINING ENGINEERING	O&M	13.9	13.2	4.9
CONTRACT ENGINEER TECH SVCS	O&M	.5	.6	.6
CONTRACTOR LOGISTICS SUPPORT	O&M	.9	0	0
INTERIM CONTRACTOR SUPPORT	O&M	.5	.0	2.4
OTHER	O&M	2.3	2.3	2.3
WEAPON SYSTEM TOTAL		18.1	16.1	10.2



AIR FORCE - ACTIVE O&M  
SUMMARY OF CONTRACTOR SUPPORT BY WEAPON SYSTEM  
(Dollars in Millions)

**Sustaining Engineering:** Supports the E-3 aircraft and the AN/APY-1 and AN/APY-2 control surveillance radar. Contract support provides materiel deficiency report evaluations, system engineering assistance, conducts investigations and feasibility studies, generates engineering change proposals for radar reliability and maintainability improvements, maintenance, upkeep of radar engineering facility subsystem, complete radar monitor software tool and provide E-3 software correlation, software support for the E-3 navigational computer system to include special studies of software deficiencies and coding changes to fix the problem, and update to operational software. Tasks include initial support of Electronic Support Systems enhancement to the E-3, redesign of the Life Cycle Support Facility test stand, and software modifications for printed circuit card update and related software changes to update the navigation system. The decrease in FY 91 is due to completion of one-time replacement of avionics test equipment.

**Contract Engineering Technical Services (CETS):** Includes engineering technical services for AWACS communication functional group hardware, AN/APY-1 and AN/APY-2 NATO surveillance radar, new start on NATO, PEACH Sentinel APAX 103 system.

**Contractor Logistics Support (CLS):** Contractor support is required for the Electronic Support System (ESS) which is a low density, high priority classified system in E-3 aircraft for enhancing surveillance capability. This program is currently not funded due to funding constraints.

**Interim Contractor Support (ICS):** Provides repair and maintenance support to the E-3A and E-3A Joint Tactical Information Distribution System (JTIDS) of those items which have not been transitioned to Air Logistics Centers. ICS is the only contract which can provide these services until tech data has been delivered to the Air Force. Lack of test program sets and tech data attributed to lack of design stability for JTIDS, therefore, keeping this program under ICS. The increase in FY 1991 is the result of supporting the Have Quick - ANET system being added to the E-3 to provide anti-jamming radio capability.

**Other:** Contractor maintenance for numerous sub-systems on the E-3 at the organizational and intermediate levels. Funded by the using command.

AIR FORCE - ACTIVE O&M  
SUMMARY OF CONTRACTOR SUPPORT BY WEAPON SYSTEM  
(Dollars in Millions)

TYPE OF SUPPORT	O&M or Ind. Fund	FY 1989			FY 1990			FY 1991		
WEAPON SYSTEM: OV-10										
SUSTAINING ENGINEERING	O&M									
DEPOT MAINTENANCE (Engine Only)	IF									
WEAPON SYSTEM TOTAL										

Sustaining Engineering: Support includes teardown inspection of major components, safety investigations, and reliability/maintainability efforts. Also included is support of OV-10 propeller system modification to a fiberglass bladed propeller.

Depot Maintenance: Reflects the engines programmed for Contract Depot Maintenance.

TYPE OF SUPPORT	O&M or Ind. Fund	FY 1989			FY 1990			FY 1991		
WEAPON SYSTEM: E-9A (AIRBORNE PLATFORM/TELEMETRY RADAR)										
CONTRACTOR LOGISTICS SUPPORT	O&M									
WEAPON SYSTEM TOTAL										

Contractor Logistics Support (CLS): Contractor support is required for maintenance of the E-9A. The E-9A (formerly Airborne Platform/Telemetry Relay System) is part of the Gulf Range upgrade. The system will provide the instrumentation necessary to support low altitude testing over the Gulf range and in support of the OT&E and Weapon System Evaluation Program (WSEP). Two commercial off-the-shelf/FAA certified aircraft will be procured and modified/configured to incorporate instrumentation subsystems including: sea surveillance radar and datalink subsystem, UHF voice communication subsystem, and TM relay subsystem.

AIR FORCE - ACTIVE O&M  
SUMMARY OF CONTRACTOR SUPPORT BY WEAPON SYSTEM  
(Dollars in Millions)

TYPE OF SUPPORT	O&M or Ind. Fund	FY 1989	FY 1990	FY 1991
WEAPON SYSTEM: E-9A				
CONTRACTOR LOGISTICS SUPPORT	O&M	.6	1.4	1.2
WEAPON SYSTEM TOTAL		.6	1.4	1.2

Contractor Logistics Support (CLS): Maintenance for E-9A aircraft at all levels. The E-9A is part of the Gulf Range upgrade. The system provides instrumentation necessary to support low altitude testing over the Gulf Range.

TYPE OF SUPPORT	O&M or Ind. Fund	FY 1989	FY 1990	FY 1991
WEAPON SYSTEM: Computer Based Instructional Training System (CBITS)				
CONTRACTOR LOGISTICS SUPPORT	O&M	.3	.5	.6
WEAPON SYSTEM TOTAL		.3	.5	.6

Contractor Logistics Support (CLS): Includes all levels of maintenance including parts transportation and benchstock. The CBITS provides initial training in the infrared arena. The initial concept includes video disc based instruction providing academically oriented training to the aircrew via interactive CRT terminals.

TYPE OF SUPPORT	O&M or Ind. Fund	FY 1989	FY 1990	FY 1991
WEAPON SYSTEM: AN/TLQ Comfy Sword				
CONTRACTOR LOGISTICS SUPPORT	O&M	1.2	1.2	1.2
WEAPON SYSTEM TOTAL		1.2	1.2	1.2

Contractor Logistics Support (CLS): Includes parts exchange, parts transportation, a COMBS, and maintenance for the Comfy Sword system. This system is a module, ground based electronic combat training system with the capability to generate a jamming and deception electromagnetic environment for training friendly aircrews.

AIR FORCE - ACTIVE O&M  
SUMMARY OF CONTRACTOR SUPPORT BY WEAPON SYSTEM  
(Dollars in Millions)

TYPE OF SUPPORT	O&M or Ind. Fund	FY 1989		FY 1990		FY 1991	
WEAPON SYSTEM: System Trainer Exercise Module (STEM)							
CONTRACTOR LOGISTICS SUPPORT	O&M	3.8		3.7		3.8	
WEAPON SYSTEM TOTAL		3.8		3.7		3.8	

Contractor Logistics Support (CLS): Includes all levels of maintenance including parts transportation and bench stock. The STEM is used to conduct and evaluate radar crew training exercises by use of prepared scenarios for realistic simulation of air situations including pilot actions and simulated radar video.

TYPE OF SUPPORT	O&M or Ind. Fund	FY 1989		FY 1990		FY 1991	
WEAPON SYSTEM: LANTIRN PTT (LOW ALTITUDE NAVIGATION AND TARGETING INFRARED SYSTEM FOR NIGHT PART TASK TRAINER)							
CONTRACTOR LOGISTICS SUPPORT	O&M	.4		1.2		4.0	
INTERIM CONTRACTOR SUPPORT	O&M	2.6		2.2		3.3	
WEAPON SYSTEM TOTAL		3.0		3.4		7.3	

Contractor Logistics Support (CLS): Provides contractor operated and maintained base supply, parts exchange/transportation, field support, bench stock, and other maintenance. LANTIRN part task trainers will be used to train pilots in the modes of operation, switchology, and symbology required to operate LANTIRN. Increase supports one additional device in FY 91.

AIR FORCE - ACTIVE O&M  
SUMMARY OF CONTRACTOR SUPPORT BY WEAPON SYSTEM  
(Dollar: in Millions)

Interim Contractor Support (ICS): Provides repair of fielded navigation pods associated with LANTIRN. The LANTIRN FCS pods are to be produced for F-16C/D and F-15E aircraft. ICS will provide for set up and repair of LANTIRN Intermediate Test Stations, plus the repair of SRUs and LRUs at the Intermediate and Depot level. The projected Support Equipment delivery date of the first set of SE to field units is Feb 89. Full organic capability at the intermediate level is projected for Aug 90, with full depot level organic capability projected for FY92 on the navigation pods and FY93 on the targeting pods. Both depot support for the pods, as well as organic capability for the support equipment, will be fully implemented by the end of FY 1993.

TYPE OF SUPPORT	O&M or Ind. Fund	FY 1989	FY 1990	FY 1991
WEAPON SYSTEM: OA-37 INSTRUMENT FLIGHT TRAINERS (IFT)				
CONTRACTOR LOGISTICS SUPPORT	O&M	.2	.3	.3
DEPOT MAINTENANCE	IF	0	.7	0
WEAPON SYSTEM TOTAL		.2	1.0	.3

Contractor Logistics Support (CLS): Provides maintenance support for the OA-37 Instrument Flight Trainer. The OA-37 IFT (A/F37A-T4D) is used to train OA-37 pilots in basic instrument flying and emergency procedures.

Depot Maintenance: The FY 1990 requirement is a scheduled maintenance program of the wing spar.

TYPE OF SUPPORT	O&M or Ind. Fund	FY 1989	FY 1990	FY 1991
WEAPON SYSTEM: E-4				
SUSTAINING ENGINEERING	O&M	3.9	1.6	5.8
CONTRACTOR LOGISTICS SUPPORT	O&M	25.3	21.4	22.2
WEAPON SYSTEM TOTAL		29.2	23.0	28.0

AIR FORCE - ACTIVE O&M  
SUMMARY OF CONTRACTOR SUPPORT BY WEAPON SYSTEM  
(Dollars in Millions)

Sustaining Engineering: Contract support provides survivability/vulnerability analysis of services publications, modifications, mission changes, service revealed deficiencies, up-to-date data files, in-flight emergency engineering support, investigations and corrective action through engineering change proposals on avionics, support and operation of the system integration laboratory for the E-4B embedded computer, systems software, system engineering support, and long range planning. Increase supports new System Integration Lab (SIL) for embedded software.

Contractor Logistics Support (CLS): Includes contractor operated and maintained base supply, exchange of serviceable items for repairable, field support for complex problem solving and technical advice, incorporation of time compliance technical orders, technical data distribution, corrosion control, emergency repairs, modification installations, and other support functions.

TYPE OF SUPPORT	O&M or Ind. Fund	FY 1989	FY 1990	FY 1991
WEAPON SYSTEM: GLOBAL POSITIONING SYSTEM				
CONTRACT ENGINEER TECH SVCS	O&M	.3	.1	.1
CONTRACTOR LOGISTICS SUPPORT	O&M	.3	.3	.3
INTERIM CONTRACTOR SUPPORT	O&M	.2	.4	.8
WEAPON SYSTEM TOTAL		.8	.8	1.2

Contracting Engineering Technical Services (CETS): CETS are provided for the Global Positioning System and includes support on the FSQ-141, 132, 178, and FSN-4 equipment. The Air Force needs contractor technical experts to perform training and consultation to enable maintenance, support and logistics personnel to become sufficient in supporting the GPS Control Segment.

Contractor Logistics Support (CLS): NAVSTAR GPS is the next generation navigation system and will replace existing systems in the 90's. Systems such as TACAN and LORAN will be decommissioned and not be available for use. The control segment is the ground equipment use determine satellite orbits and to update the navigation message.

AIR FORCE - ACTIVE O&M  
SUMMARY OF CONTRACTOR SUPPORT BY WEAPON SYSTEM  
(Dollars in Millions)

Interim Contractor Support (ICS): The NAVSTAR GPS was developed to provide worldwide highly precise position, velocity and time information to users. ICS will provide for repair of LRUs determined to be exclusions to contractor warranty through FY92.

TYPE OF SUPPORT	O&M or Ind. Fund	FY 1989	FY 1990	FY 1991
WEAPON SYSTEM: RC-135/C-130 (BIG SAFARI)				
DEPOT MAINTENANCE	O&M	155.4	158.5	185.9
WEAPON SYSTEM TOTAL		155.4	158.5	185.9

The BIG SAFARI program covers 60 special mission RC-135 and C-130 aircraft. Costs include planned depot maintenance, modification/upgrade installs, contractor field services, and depot support. Annual cost changes are primarily driven by inflation and increase/decrease in the number of PDM's and major modification installs. Certain costs are fleetwide in nature (level of effort) and change with inflation. The majority of the increase in FY 91 is due to the inclusion of Special Operational Forces (SOF) aircraft modifications that are being accomplished under the Big Safari Program due to the similarity of aircraft and special capabilities resident in this program.

TYPE OF SUPPORT	O&M or Ind. Fund	FY 1989	FY 1990	FY 1991
WEAPON SYSTEM: T-38				
SUSTAINING ENGINEERING	O&M	1.9	1.6	1.6
CONTRACTOR LOGISTICS SUPPORT	O&M	.1	.2	.2
DEPOT MAINTENANCE	IF	24.3	20.2	11.7
OTHER	O&M	24.2	24.2	24.2
WEAPON SYSTEM TOTAL		50.5	46.2	37.7

Sustaining Engineering: Includes a continuation of the damage tolerance analysis and contractor flight loads data recorder program for non-severe usage and Cockpit Enclosure modification support.

AIR FORCE - ACTIVE O&M  
SUMMARY OF CONTRACTOR SUPPORT BY WEAPON SYSTEM  
(Dollars in Millions)

Contractor Logistics Support (CLS): Support is provided for the T-38 Instrument Flight Trainers which provide initial training for new pilots. The T-38 simulators are used to augment ATC's Under graduate and Instructor Pilot Training Program.

Depot Maintenance: The decrease between FY 1989 and FY 1990 is due to the modification installation funds transferring to the central procurement account. The variance between FY 1990 and FY 1991 is due to a decreased input to the Depot Economy Repair Program.

Other: Air Training Command organizational level contractor support for flight-line maintenance support (versus normal military mechanics and technicians).

TYPE OF SUPPORT	O&M or Ind. Fund	FY 1989	FY 1990	FY 1991
WEAPON SYSTEM: T-37				
SUSTAINING ENGINEERING	O&M	.2	1.3	1.5
DEPOT MAINTENANCE	IF	11.7	16.9	2.3
OTHER	O&M	.2	.2	.2
WEAPON SYSTEM TOTAL		12.1	18.4	4.0

Sustaining Engineering: Support includes the durability and damage tolerance analysis update and the aircraft structural integrity program and development of software to be used for the reduction of T-37 MXU flight loads data recorder data. Contractual support is expanded in FY90/91 to assure the airworthiness and operational capability of the fleet beyond FY 2000. Services include alternative part evaluations, quality deficiency analysis, problem investigation and resolution, on-site aircraft mishap support, assessment of damage and design of repairs for damaged aircraft, and instrumentation and data reduction.

Depot Maintenance: Since the T-37 will remain in the force structure as a trainer, a new program begins in FY 1989 to inspect/repair the structural integrity of the fleet. The first phase of this program is a Damage Tolerance Assessment (DTA) which begins in FY 1989. This phase extends into FY 1990 and dovetails with the follow-on modification called the Structural Life Extension Program (SLEP). The large decrease between FY 1990 and FY 1991 is due to the DTA program phasing down.



AIR FORCE - ACTIVE O&M  
SUMMARY OF CONTRACTOR SUPPORT BY WEAPON SYSTEM  
(Dollars in Millions)

Other: Air Training Command contract simulator support (Link trainers) for student pilot training.

TYPE OF SUPPORT	O&M or Ind. Fund	FY 1989	FY 1990	FY 1991
WEAPON SYSTEM: T-37/T-38 (costs not identifiable to just one system)		36.4	72.8	76.0
OTHER	O&M	36.4	72.8	76.0
WEAPON SYSTEM TOTAL				

Other: Air Training Command organizational level contractor support for flight-line maintenance support (versus normal military mechanics and technicians). Program increases as additional bases contract out flight line support versus in-house civilian or military technician support. Support costs cannot be tied to just one weapon system since the same contract personnel will work on both aircraft and bench stock can be used to a large extent on both aircraft also.

TYPE OF SUPPORT	O&M or Ind. Fund	FY 1989	FY 1990	FY 1991
WEAPON SYSTEM: T-43A		11.3	8.0	8.0
CONTRACTOR LOGISTICS SUPPORT	O&M	1.0	0	0
OTHER	O&M	12.3	8.0	8.0
WEAPON SYSTEM TOTAL				

Contractor Logistics Support (CLS): Provides contractor operated maintained base supply, field support, maintenance data, and parts exchange related to flying hours. 14 aircraft are supported at Mather AFB, CA. The T-43A aircraft serve as navigator trainers for Air Training Command.

Other: Air Training Command contract simulator support (T-45/T-5 trainers) for student navigator training. Requirement is eliminated in FY 90/91 as the Tanker Transport Training System comes on line.

AIR FORCE - ACTIVE O&M  
SUMMARY OF CONTRACTOR SUPPORT BY WEAPON SYSTEM  
(Dollars in Millions)

TYPE OF SUPPORT	O&M or Ind. Fund	FY 1989	FY 1990	FY 1991
WEAPON SYSTEM: C-9				
CONTRACTOR LOGISTICS SUPPORT	O&M	17.0	15.6	20.7
WEAPON SYSTEM TOTAL		17.0	15.6	20.7

Contractor Logistics Support (CLS): Support includes contractor operated maintained base supply, over and above material support (out of cycle requirements), and planned depot maintenance for the C-9 aircraft. Increase supports additional engine overhauls in order to maintain mission readiness.

TYPE OF SUPPORT	O&M or Ind. Fund	FY 1989	FY 1990	FY 1991
WEAPON SYSTEM: VC-137				
SUSTAINING ENGINEERING	O&M	.1	.5	.5
CONTRACTOR LOGISTICS SUPPORT	O&M	24.2	24.5	22.0
WEAPON SYSTEM TOTAL		24.3	25.0	22.5

Sustaining Engineering: C-137 software support associated with the replacement of the URG-1 high frequency radio with the AN/ARC-207 high frequency radio, replacement of the AOC-4 multiplexer with a UHF frequency division multiplexer, replacement of the old switching matrix with state-of-the-art processor controlled switching matrices is begun in FY89.

Contractor Logistics Support (CLS): Includes management services, engineering services, system data, depot maintenance, field support, replenishment bench stock, component overhaul, and technical order updates. Includes intermediate and depot level support. This program is in direct support of the President and Vice President of the United States, cabinet members, and other dignitaries.

AIR FORCE - ACTIVE O&M  
SUMMARY OF CONTRACTOR SUPPORT BY WEAPON SYSTEM  
(Dollars in Millions)

TYPE OF SUPPORT	O&M or Ind. Fund	FY 1989	FY 1990	FY 1991
WEAPON SYSTEM: C-17				
CONTRACTOR LOGISTICS SUPPORT	O&M	0	0	1.6
INTERIM CONTRACTOR SUPPORT	O&M	0	5.1	12.6
WEAPON SYSTEM TOTAL		0	5.1	14.2

Contractor Logistics Support (CLS): The C-17 Maintenance Trainers are currently in acquisition. Initial site activation starts in FY91 and continues through FY 98. A total of 5 sites will be supported.

Interim Contractor Support (ICS): The C-17A is a Douglas aircraft wide body airlift aircraft designed to augment the current Air Force airlift force in both inter-theater and intra-theater operations. ICS will fund depot level repairs, lay-in of expense material, program management services, data services and operation of the contractor operated storage site. The ICS requirements are a yearly option to the acquisition contract. It will allow the contractor to demonstrate that system specifications can be met and that support equipment can support the MAC mission using organic blue suit maintenance. ICS will fund contractor repair of any contractor furnished equipment repairables returned to his facility. Contract repair is required until T.O.'s are available, personnel are trained and support equipment demonstrated capability is accepted and the SE and support for SE are readily available. Because of contract terms, significant underfunding of ICS will negate much of the warranty associated with this aircraft.

TYPE OF SUPPORT	O&M or Ind. Fund	FY 1989	FY 1990	FY 1991
WEAPON SYSTEM: C-21A				
CONTRACTOR LOGISTICS SUPPORT	O&M	23.1	21.6	20.5
WEAPON SYSTEM TOTAL		23.1	21.6	20.5

Contractor Logistics Support (CLS): Includes maintenance of the 79 C-21As and provides all levels of support: organizational, intermediate, and depot. The contract is based on the number of aircraft, locations, and the number of flying hours.

AIR FORCE - ACTIVE O&M  
SUMMARY OF CONTRACTOR SUPPORT BY WEAPON SYSTEM  
(Dollars in Millions)

TYPE OF SUPPORT	O&M or Ind. Fund	FY 1988	FY 1989	FY 1990	FY 1991
WEAPON SYSTEM: C-23					
CONTRACTOR LOGISTICS SUPPORT	O&M		7.9	9.8	10.3
WEAPON SYSTEM TOTAL			7.9	9.8	10.3

Contractor Logistics Support (CLS): Includes contractor operated and maintained base supply, field support, bench stock, maintenance and repair, unplanned maintenance, and modifications. The contract is based on 18 aircraft and the flying hours. Funding changes between years are due to flying hour changes and normal phasing of programmed depot maintenance for this small fleet which fluctuates from year to year.

TYPE OF SUPPORT	O&M or Ind. Fund	FY 1989	FY 1990	FY 1991
WEAPON SYSTEM: C-22A (SOUTHCOM)				
CONTRACTOR LOGISTICS SUPPORT	O&M	4.0	2.5	2.6
WEAPON SYSTEM TOTAL		4.0	2.5	2.6

Contractor Logistics Support (CLS): Includes contractor operated and maintained base supply, field support, data and technical order data, parts replenishment and repair, bench stock, parts transportation, aircraft maintenance and modifications, and engineering services. One aircraft is provided depot level support.

TYPE OF SUPPORT	O&M or Ind. Fund	FY 1989	FY 1990	FY 1991
WEAPON SYSTEM: C-12				
CONTRACTOR LOGISTICS SUPPORT	O&M	14.3	15.7	15.4
WEAPON SYSTEM TOTAL		14.3	15.7	15.4

Contractor Logistics Support (CLS): Includes maintenance at all levels: organizational, intermediate, and depot.

AIR FORCE - ACTIVE O&M  
SUMMARY OF CONTRACTOR SUPPORT BY WEAPON SYSTEM  
(Dollars in Millions)

<u>TYPE OF SUPPORT</u>	<u>O&amp;M or Ind. Fund</u>	<u>FY 1989</u>	<u>FY 1990</u>	<u>FY 1991</u>
WEAPON SYSTEM: VC-25 AF-1 (AIR FORCE ONE REPLACEMENT)				
CONTRACTOR LOGISTICS SUPPORT	O&M	3.6	6.8	13.4
WEAPON SYSTEM TOTAL		3.6	6.8	13.4

Contractor Logistics Support (CLS): Includes program operational planning in support of the contractor operated and maintained base supply and the base activation. Support is required prior to delivery of either of the two new aircraft. Support includes maintenance of replenishment spares and repair, base operations, and final stages of program operational planning and base activation. Increase supports delivery of first of two aircraft in last quarter of FY 90.

<u>TYPE OF SUPPORT</u>	<u>O&amp;M or Ind. Fund</u>	<u>FY 1989</u>	<u>FY 1990</u>	<u>FY 1991</u>
WEAPON SYSTEM: C-20				
CONTRACTOR LOGISTICS SUPPORT	O&M	16.0	24.7	20.8
WEAPON SYSTEM TOTAL		16.0	24.7	20.8

Contractor Logistics Support (CLS): Includes contractor operated and maintained base supply, parts exchange and transportation, field support, bench stock, other maintenance support, and logistics data. Levels of support include organization, intermediate, and depot.

<u>TYPE OF SUPPORT</u>	<u>O&amp;M or Ind. Fund</u>	<u>FY 1989</u>	<u>FY 1990</u>	<u>FY 1991</u>
WEAPON SYSTEM: C-29				
CONTRACTOR LOGISTICS SUPPORT	O&M	.2	3.8	4.2
WEAPON SYSTEM TOTAL		.2	3.8	4.2

AIR FORCE - ACTIVE O&M  
SUMMARY OF CONTRACTOR SUPPORT BY WEAPON SYSTEM  
(Dollars in Millions)

Contractor Logistics Support (CLS): Includes contractor operated and maintained base supply, parts exchange and transportation, field support, bench stock, other maintenance support, and logistics data. Levels of support include organization, intermediate, and depot.

TYPE OF SUPPORT	O&M or Ind. Fund	FY 1989	FY 1990	FY 1991
WEAPON SYSTEM: C-141				
SUSTAINING ENGINEERING	O&M	.6	.7	.7
CONTRACTOR LOGISTICS SUPPORT	O&M	0	1.6	1.9
DEPOT MAINTENANCE	IF	.1	2.4	1.4
WEAPON SYSTEM TOTAL		.7	4.7	4.0

Sustaining Engineering: Provides support of Aircraft Structural Integrity Program and Systems Engineering. Support to resolve problems on the C-141 for fuel shutoff valve actuator, windshield sealing problem, and redesign of the main landing gear support structure.

Contractor Logistics Support (CLS): Provides support of the C-141 Aerial Refueling Part Tasks Trainer (ARPTT).

Depot Maintenance: The increase between FY 1989 and FY 1990 is due to the center wing repair accomplished in FY 1990. The decrease between FY 1990 and FY 1991 is because no center wing repairs are scheduled to be accomplished in FY 91.

TYPE OF SUPPORT	O&M or Ind. Fund	FY 1989	FY 1990	FY 1991
WEAPON SYSTEM: C-130				
SUSTAINING ENGINEERING	O&M	2.0	3.6	3.6
INTERIM CONTRACTOR SUPPORT	O&M	1.6	2.8	4.9
DEPOT MAINTENANCE	IF	10.0	3.0	2.2
WEAPON SYSTEM TOTAL		13.6	9.4	10.7

AIR FORCE - ACTIVE O&M  
SUMMARY OF CONTRACTOR SUPPORT BY WEAPON SYSTEM  
(Dollars in Millions)

**Sustaining Engineering:** Provides for a test program to evaluate the conditions and responses of the C-130 engine and propeller systems that occur during the four-engine power loss due to alternating current power fluctuations; C-130 condition assessment/improvement program (CA/IP) to include functional system checks, on aircraft inspections, component testing, teardown, and evaluation.

**Interim Contractor Support (ICS):** The C-130 Self-Contained Navigation System (SCNS) is comprised of three basic systems - Inertial Navigation System (INS), Doppler Nav System (DNS) and Integrated Control Display Unit (ICDU). ICS will handle all depot repair of the SCNS components which are not presently being maintained/repared by the USAF. It will allow all maintenance procedures as well as SE software and hardware to mature prior to USAF use.

**The C-130 Adverse Weather Aerial Delivery System (AWADS) replacement radar referred to as the Multi-Mode Radar (MMR).** ICS will handle all depot repair of the MMR components which are not presently maintained/repared by the Air Force. Depot and I-level SE will not be delivered until approximately 15 months after the last installation of the radar in the AWADS aircraft.

**ICS will be used to support the C-130 Autopilot Ground Collision Avoidance System until FY 1991 depot repair can be established.** The present C-130 autopilot analog technology is obsolete and the system is approaching unsupportable status due to a lack of replacement parts.

**Depot Maintenance:** The large decrease between FY 89 and FY 90 is due to aircraft mod install funds being transferred to the central procurement account in FY 1990. The small decrease in this program between FY 90 and FY 91 is based on aircraft Program Depot Maintenance (PDM) schedules for Special Operations Forces (SOF) aircraft.

AIR FORCE - ACTIVE O&M  
SUMMARY OF CONTRACTOR SUPPORT BY WEAPON SYSTEM  
(Dollars in Millions)

TYPE OF SUPPORT	O&M or Ind. Fund	FY 1989	FY 1990	FY 1991
WEAPON SYSTEM: C-5				
SUSTAINING ENGINEERING	O&M	.5	.4	.4
CONTRACT ENGINEER TECH SVCS	O&M	.4	.3	.3
CONTRACTOR LOGISTICS SUPPORT	O&M	3.0	3.1	3.5
DEPOT MAINTENANCE	IF	0	.6	0
WEAPON SYSTEM TOTAL		3.9	4.4	4.2

Sustaining Engineering: Support is primarily for Aircraft Structural Integrity Program and Systems Engineering.

Contract Engineering Technical Services (CETS): Provides proficiency training, technical guidance in the evaluation of unusual field problems, and emergency technical assistance.

Contractor Logistics Support (CLS): Support is for the C-5 Aerial Refueling Parts Tasks Trainer (ARPTT) and the C-5 Maintenance Trainer.

Depot Maintenance: The FY 1990 support is for routine maintenance.

TYPE OF SUPPORT	O&M or Ind. Fund	FY 1989	FY 1990	FY 1991
WEAPON SYSTEM: HH/OH-3				
DEPOT MAINTENANCE	IF	1.2	1.5	.8
WEAPON SYSTEM TOTAL		1.2	1.5	.8

Depot Maintenance: This support is for the corrosion refurbishment and Analytical Condition Evaluation (ACE) program. Variance between years is due to quantity changes.



AIR FORCE - ACTIVE O&M  
SUMMARY OF CONTRACTOR SUPPORT BY WEAPON SYSTEM  
(Dollars in Millions)

<u>TYPE OF SUPPORT</u>	<u>O&amp;M or</u> <u>Ind. Fund</u>	<u>FY 1989</u>	<u>FY 1990</u>	<u>FY 1991</u>
WEAPON SYSTEM: UH-1H/UH-1N				
DEPOT MAINTENANCE	IF	3.9	3.2	3.7
WEAPON SYSTEM TOTAL		3.9	3.2	3.7

Depot Maintenance: Supports the ACE program.

<u>TYPE OF SUPPORT</u>	<u>O&amp;M or</u> <u>Ind. Fund</u>	<u>FY 1989</u>	<u>FY 1990</u>	<u>FY 1991</u>
WEAPON SYSTEM: CH/HH/MH-53				
DEPOT MAINTENANCE	IF	25.4	5.0	3.1
WEAPON SYSTEM TOTAL		25.4	5.0	3.1

Depot Maintenance: Supports Special Operations Forces (SOF) modification and PDM programs. The large decrease between FY 1989 and FY 1990 is due to the transfer of modification installation funds from the O&M account to the central procurement account.

<u>TYPE OF SUPPORT</u>	<u>O&amp;M or</u> <u>Ind. Fund</u>	<u>FY 1989</u>	<u>FY 1990</u>	<u>FY 1991</u>
WEAPON SYSTEM: H/UH-60				
DEPOT MAINTENANCE (Engine Only)	IF	.5	2.1	2.6
WEAPON SYSTEM TOTAL		.5	2.1	2.6

Depot Maintenance: Represents interservice repair accomplished by the Army and Navy for the Air Force.

AIR FORCE - ACTIVE O&M  
SUMMARY OF CONTRACTOR SUPPORT BY WEAPON SYSTEM  
(Dollars in Millions)

TYPE OF SUPPORT	O&M or Ind. Fund	FY 1989	FY 1990	FY 1991
WEAPON SYSTEM: SPECIAL OPERATIONS FORCES (SOF)				
SUSTAINING ENGINEERING	O&M	13.3	22.1	32.4
CONTRACT ENGINEERING TECH SVCS	O&M	.6	.6	0
CONTRACTOR LOGISTICS SUPPORT	O&M	0	1.6	0
INTERIM CONTRACTOR SUPPORT	O&M	18.2	22.1	30.2
WEAPON SYSTEM TOTAL		32.1	46.4	62.6

Sustaining Engineering: Sustaining engineering is provided for helicopters and fixed wing aircraft. Helicopter support includes airframe, avionics, hardware and software for the MH-53J (PAVE LOW), MH-60G (PAVE HAWK), H-3, and UH-1H helicopter. Fixed wing aircraft support includes all Special Operations Forces (SOF) unique configurations for the C-141B (SOLL II), AC-130H (Gunship), C-130 (Combat Talon I), C-130 P/N (SOF enhancement), C-130 AVADS (SOF enhancement) for avionics hardware and software. FY 91 increase supports analysis of avionics problems in MC/AC-130s and H-53 helicopters..

Contract Engineering Tech Svcs: Initial engineering support is required in FY90 as the SOF Electromagnetic Interference (EMI) program baseline will be established and the Avionics Configuration Analysis Program will add new analysis models for implementation at the Warner Robins Engineering Control Computer Facility. USSOCCOM assumes budget responsibility in FY91.

Contractor Logistics Support (CLS): Contract support for the TH-53 Weapon system Trainer (converted from HH-53 WST) and MH-53J WST (QH-3E updated to MH-53J PAVE LOW III Enhanced Configuration) to provide training for helicopter air crews. USSOCCOM assumes budget responsibility in FY91.

AIR FORCE - ACTIVE O&M  
SUMMARY OF CONTRACTOR SUPPORT BY WEAPON SYSTEM  
(Dollars in Millions)

Interim Contractor Support (ICS): MH-53J system has several programs ongoing. The Credible Hawk Program is to increase AF capability to support Special Forces long range rotary wing mission. The extremely compressed aircraft mod schedule does not provide for support equipment and adequately trained maintenance personnel to support the ENS, ALQ-157 and ALQ-162. The APQ-158 is a TFTA radar and is mission essential to the PAVE LOW III aircraft. The AAQ-8 Forward Looking Infrared Radar was previously known as the AAQ-10 Common Module Upgrade. Both systems are being redesigned and installed on the Pave Low "Enhanced" aircraft. ICS is for depot support and field level support until verified tech data and new support equipment can be obtained. The AAR-47 and ALQ-136 are radar countermeasure systems required to protect the helicopter from radar guided missiles. Depot repair capability is not yet available.

The ALQ-17 Infrared Detecting Set (IDS) for the AC-130H converts infrared radiation into TV format video signals to enable the aircraft to operate in day/night and adverse weather conditions. ICS is required to support the system due to lack of data and test equipment.

The Combat Talon II system is a new production C-130H integrated with sophisticated avionics systems. This modified derivative aircraft (MC-130H) is intended to meet the TAF SON for Special Operations Aircraft. Neither peculiar support equipment nor verified tech manuals will be available at IOC. Due to delays in the development of unique avionics, the baseline has not been stabilized. This has resulted in provisioning delays and a limited number of spares being procured. To assure these assets are available for operational use it is essential that they be repaired and returned to service quickly. The AC-130H gunship is part of the SOF fleet. There are a limited number of spares being procured. To assure these assets are available for operational use it is essential that they be repaired and returned to service quickly. The AC-130H gunship is part of the SOF fleet. There are a limited number of assets that must be supported commensurate with the FAD-1 designation. The SOF Improvement mod program is a major avionics upgrade to the aircraft that will significantly increase capability, operability, reliability, and maintainability. Anticipate organic support in FY93.

The APR-46A wideband microwave receiving system is a high performance, HF/UHF/Microwave receiver for processing and displaying pulsed and amplitude modulated signals. It will be installed on several SOF C-130 MDS's. Intermediate and depot support equipment and tech data will not be available to support the system organically.

AIR FORCE - ACTIVE O&M  
SUMMARY OF CONTRACTOR SUPPORT BY WEAPON SYSTEM  
(Dollars in Millions)

The AN/AAR-44 Infrared Warning Receiver will provide warning of surface-to-air missiles to SOF aircraft. This system warns the crew of the position of missiles and automatically controls countermeasures to neutralize threats and enhance survivability of aircraft. LCS is required until depot organic capability is developed. Funding is \$2.0M in FY89, \$1.9M in FY90 and \$2.0M in FY91.

Other requirements are the AN/ASQ-145A (Low Light Level Television Sensor System) which will have support equipment and data for organic support in FY92, and the AN/APQ-150 Radar System which will be organically supportable in FY91.

TYPE OF SUPPORT	O&M or Ind. Fund	FY 1989		FY 1990		FY 1991	
WEAPON SYSTEM: TTTS							
CONTRACTOR LOGISTICS SUPPORT	O&M	0		0		0	.9
WEAPON SYSTEM TOTAL		0		0		0	.9

Contractor Logistics Support (CLS): The Tanker-Transport System (TTTS) is a commercial, off-the-shelf, multi-engine aircraft that will be used by ATC for specialized undergraduate pilot training in the tanker transport track. Initial support begins in FY91 as system is delivered.

AIR FORCE  
CONTRACTS OVER \$50 MILLION  
OPERATION AND MAINTENANCE (O&M) AND INDUSTRIAL FUND (IF)  
(\$ Millions)

COMMAND/TYPE OF CONTRACT	O&M OR IND. FUND	CONTRACTOR	SOLE SOURCE OR COMP		FY90	FY91

Air Force Systems Command (AFSC):

Titan IV Launch Support	O&M	Martin Marietta Sole Aerospace Corp	\$84	\$153	\$153	\$153
-------------------------	-----	--	------	-------	-------	-------

Funds support launch services for Titan IV launches at Cape Canaveral. Includes checkouts for liquid rocket engine, payload fairing and avionics. Change between FY 89 and FY 90/91 is due to an increase in expendable launches.

Inertial Upper Stage (IUS) Launch Services	O&M	Boeing Corp	\$53	\$51	\$51	\$51
---	-----	-------------	------	------	------	------

This contract provides for integration and launch services for the inertial upper stage. This includes storage and logistic support, mission design, vehicle test, launch operations, realtime support to flight operations, and post flight reporting.

AIR FORCE  
CONTRACTS OVER \$50 MILLION  
OPERATION AND MAINTENANCE (O&M) AND INDUSTRIAL FUND (IIF)  
(\$ Millions)

COMMAND/TYPE OF CONTRACT	O&M OR IND. FUND	CONTRACTOR	SOLE SOURCE OR COMP		
			FY89	FY90	FY91
COMMAND AND CONTROL	O&M	IBM Corp	\$50	\$52	\$52

Command and Control Sustaining Engineering (CCSE). 20 month plus 3 one-year options. Provides hardware maintenance and commercial license fees for new command and control data system recently acquired by Data Systems Modernization (DSM) Program.

Center Technical Services	O&M	Computer Sciences Corp-Raytheon	\$56	\$64	\$64
---------------------------	-----	---------------------------------	------	------	------

This contract involves management, operations and maintenance of the facilities of the Eastern Space and Missile Center (ESMC) and Eastern Test Range (ETR). ESMC requires engineering and technical support to operate and maintain instrumentation, data transfer and data processing systems, control and support centers, and facilities. In addition, support is required to provide operations, planning and technical analysis support. Change between FY 89 and FY 90/91 is driven by contractor support for increased launches.

Tactical Air Command (TAC) \*

Base Operation and Maintenance	O&M	Felec Serv Inc	Comp	58	42	40
--------------------------------	-----	----------------	------	----	----	----

This contract provides necessary manning for operating and maintaining the Distant Early Warning Radar and Communications Systems, related electronic equipment, real property facilities, and support areas. Services include administration, general management, operations, communications and electronic maintenance, civil engineering, logistics services, security, safety, personnel support, and operation and maintenance of utility system, ventilation, plumbing, sanitation, fire detection and alarms. The decrease between FY 89 and 90/91 is due to projected turn over of north warning sites to Canada.

AIR FORCE  
CONTRACTS OVER \$50 MILLION  
OPERATION AND MAINTENANCE (O&M) AND INDUSTRIAL FUND (IF)  
(\$ Millions)

COMMAND/TYPE OF CONTRACT	O&M OR IND. FUND	CONTRACTOR	SOLE SOURCE OR COMP.	FY 89	FY 90	FY 91
Air Force Space Command (AF Space Com)						
Network Support	O&M	Ford Aerospace & Communications Corp	Camp	\$69	\$68	\$77

The Network Support Program contract provides for round-the-clock operations, maintenance, and logistics support of the Air Force Satellite Tracking Group. Functions include command, control and track space vehicles; receive, record, process and transmit telemetry data; support readiness, prelaunch and launch activities; configure and operate computer area equipment, telemetry equipment, and antenna area equipment; and maintenance on all station equipment. Support is provided to the US Military Space Program, other government agencies, and US sponsored programs of foreign governments. Growth between years is due to inflation. FY 91 contract will be recompeted.

US Air Forces Europe (USAFE)

Base Maint Contract	O&M	Vinnell, Brown & Root Joint Venture	Camp	65	49	60
---------------------	-----	--	------	----	----	----

This contract provides for contractor operated activities that provide base support such as civil engineering, transportation, supply and services at Izmir, Ankara, Incirlik, Air Force bases in Turkey. This contract provides maintenance of essential base facilities and provides normal support services provided by military personnel at other locations. The decrease from FY 89 to 90 is due to reduced foreign currency rates.

AIR FORCE  
CONTRACTS OVER \$50 MILLION  
OPERATION AND MAINTENANCE (O&M) AND INDUSTRIAL FUND (IF)  
(\$ Millions)

COMMAND/TYPE OF CONTRACT	O&M OR IND. FUND	CONTRACTOR	SOLE SOURCE OR COMP	FY 89	FY 90	FY91
Air Force Logistics Command (AFLC):						
Contractor Logistics Support	O&M	Lockheed Corp.	Sole	\$64	\$59	0

This contract provides engineering, technical, and logistic support necessary to maintain operational readiness for the SR-71 aircraft fleet and systems. Funding decreases are due to termination costs and reduction in flying hours.

Contractor Logistics Support	O&M	Lockheed Corp	Sole	\$53	\$57	\$60
------------------------------	-----	---------------	------	------	------	------

This contract provides engineering, technical, and logistic support, to maintain operational readiness for the TR-1/U-2 aircraft fleet and systems. Changes between fiscal years are due to inflation.

Contractor Logistics Support	O&M	McDonnell Douglas Corporation	Comp	\$49	\$63	\$67
------------------------------	-----	-------------------------------	------	------	------	------

This contract provides logistics support, engine repair, and aircraft maintenance/repair to support KC-10 aircraft, associated equipment, and support equipment. The increases in FY 90/91 includes on-board cargo loader modification and wing tip fuel pods.



AIR FORCE  
CONTRACTS OVER \$50 MILLION  
OPERATION AND MAINTENANCE (O&M) AND INDUSTRIAL FUND (IF)  
(\$ Millions)

COMMAND/TYPE OF CONTRACT	O&M OR IND. FUND	CONTRACTOR	SOLE SOURCE OR COMP		FY 91
			FY 89	FY 90	
Interim Contractor Support	O&M	Rockwell International	\$67	\$78	\$73

This contract provides for repair of B-1B assets and some management services. Full organic capability is not available at this time. Funding decrease in FY91 is due to the projected development of organic capability to support the B-1B.

AIR FORCE  
CONTRACTS OVER \$50 MILLION  
OPERATION AND MAINTENANCE (O&M) AND INDUSTRIAL FUND (IF)  
(\$ Millions)

<u>COMMAND/TYPE OF CONTRACT</u>	<u>O&amp;M OR IND. FUND</u>	<u>CONTRACTOR</u>	<u>SOLE SOURCE OR COMP</u>	<u>FY 89</u>	<u>FY 90</u>	<u>FY 91</u>
F-111 E/F PDM	IF	British Aerospace	Sole	\$54	\$56	\$77

This contract provides for Programmed Depot Maintenance (PDM) and installation of aircraft modifications F-111E/F aircraft. The increase in funding is the result of increased tasks, and forthcoming modifications.

AIR FORCE  
CONTRACTS OVER \$50 MILLION  
OPERATION AND MAINTENANCE (O&M) AND INDUSTRIAL FUND (IF)  
(\$ Millions)

COMMAND/TYPE OF CONTRACT	O&M OR IND. FUND	SOLE SOURCE OR CONTRACTOR	COMP	FY 89	FY 90	FY 91
<u>Military Airlift Command (MAC):</u>						
Joint Venture Commercial	IF	Flying Tiger Tower Air United Parcel United Air	Limited Corp	\$100		
Joint Venture Commercial	IF	Northwest Federal Express	Limited Corp	\$56		
Joint Venture Commercial	IF	Northwest Federal Express Pan American Tower Air United Parcel	Limited Corp	\$13	\$129	\$149
Joint Venture Commercial	IF	World Airways American Emery Worldwide Evergreen INT'L Key Airlines Rosenbalm	Limited Corp		\$72	\$93

AIR FORCE  
CONTRACTS OVER \$50 MILLION  
OPERATION AND MAINTENANCE (O&M) AND INDUSTRIAL FUND (IF)  
(\$ Millions)

COMMAND/TYPE OF CONTRACT	SOLE		SOURCE OR		FY 90	FY 91
	O&M OR IND. FUND	CONTRACTOR	COMP			
<u>Military Airlift Command (MAC):</u>						
Joint Venture Commercial	IF	World Airways Rosenbalm Key Airlines Evergreen Emery Express	Limited Corp	\$70		

These contracts represent commercial augmentation of Airlift Service Industrial Fund passenger and cargo activities. Awards are made on a calendar year basis and amounts shown are applicable for each fiscal year. FY 90/91 contracts represent long-term or fixed buy award and are to be expanded for additional airlift capability as needed. Contract costs are driven by customer requirements and organic capabilities.

DEPARTMENT OF THE AIR FORCE  
FY 1991 CLAIMS  
(\$ in thousands)

		<u>FY 1990</u>						
Major Force Program	FY 1989 Actual	April Budget Revision	Approp	Current Estimate	FY 1991 Estimate	Change FY 89-90	Change FY 90-91	
I	4,668	7,362	7,054	5,931	6,482	1,263	551	
II	13,733	17,711	16,792	16,727	18,591	2,994	1,864	
III	76	174	174	158	173	82	15	
IV	2,471	3,634	3,456	3,257	3,621	786	364	
VII	4,061	3,752	3,568	3,138	3,721	- 923	583	
VIII	1,925	3,065	2,915	2,738	3,010	813	272	
IX	3,716	5,326	5,065	4,532	4,916	816	384	
Total*	30,650	41,024	39,024	36,481	40,514	5,831	4,033	

WORKLOAD INDICATORS

Number of Claims	59,966	60,444	60,927	+ 478	+ 483
---------------------	--------	--------	--------	-------	-------

\* Total paid from appropriated funds.

NOTE: 1. The following specific claims are paid out of the GAO "Judgment Fund":

- a. The full amount of all individual claims paid under the Federal Tort Claims Act if these claims exceed \$2,500.
- b. The amount of each foreign claim over \$100,000.

NEW PROGRAMS IN O&M, AIR FORCE APPROPRIATION  
(Dollars in thousands)

FY 1991

Identification and Description

a. Advanced Strategic Programs (PE 11815F)

Classified program. Details available through classified channels.

b. Two classified programs.

Details available through classified channels.

c. Employee Assistance Program (EAP) (PE 88716F)

\$ 1,767

The Employee Assistance Program (EAP) implements Executive Order 12564. EAP provides 53 civilian manpower spaces for alcohol/drug counselors. These counselors will provide alcohol and drug counselling to the civilian populace employed by the United States Air Force. EAP will be implemented 1 October 1990.

d. Joint Health Care Management Engineering Team (PE 91219F)

\$ 117

The Joint Health Care Management Engineering Team (JHMET) is a multi-Service organization comprised of personnel from the three military departments. Their charter is to jointly design, measure, and survey in order to develop common health care manpower standards for all peacetime elements of the Military Health Services System. The United States Air Force and Air Force Management Engineering Agency act as the executive agents for the JHMET with budgeting, technical assistance, and other support responsibilities. OASD(HA) is responsible for the technical oversight and policy guidance of the JHMET to include such areas as work scheduling, coordination of study planning with the Services, and a provision for authoritative documents which will be in the form of DOD publications.

DEPARTMENT OF AIR FORCE  
Summary of Total Quality Management (TQM) Resources

	<u>FY 1989</u>	<u>FY 1990</u>	<u>FY 1991</u>
End Strength: *			
Military	18	18	18
Civilian	19	19	19
Funding:			
O&M	\$1,424,950	\$1,483,373	\$1,539,801
Students Trained:	5,095	5,095	5,095

\* Represents equivalent number of people working TQM. All are taken out of command resources as no end strength was programmed for TQM.

AIR FORCE - ACTIVE O&M  
REAL PROPERTY MAINTENANCE ACTIVITIES  
(Dollars in Millions)

Appropriation: O&M/Associated Military Personnel - FY 1989 Actual

Function Category at Work Functions	Workload Data	Civilian Personnel	Other Non Pay	Total	Military Personnel (\$000)	EMAR
<b>Active Installations</b>						
1. Maintenance & Repair		461,889	1,072,123	1,534,012	562,583	1,039,900
a. Utilities		128,549	219,921	348,470	169,678	209,022
b. Other Real Property		333,340	852,202	1,185,542	392,905	830,878
(1) Buildings	KSF 497,064	246,705	541,117	787,822	285,603	437,797
(2) Other Facilities		12,286	26,578	38,864	17,226	98,796
(3) Pavements	KSY 401,339	43,601	249,838	293,439	48,406	280,769
(4) Land	AC 8,856,153	28,268	27,358	55,626	39,487	11,440
(5) Railroad Trackage	KLF 2,396	2,480	7,311	9,791	2,183	2,076
<b>2. Minor Construction</b>						
		11,605	188,561	200,166	20,653	
<b>3. Operation of Utilities</b>						
a. Electricity-Purchased	KWH 6,282,472,142	54,342	573,800	628,142	41,306	
b. Electricity-In House	KWH 1,157,433,569		343,867	343,867		
c. Heat-Purchased Steam/Water	MBTU 1,106,178	6,858	18,443	25,301	3,491	
d. Heat-In House Generated	MBTU 43,036,981		6,247	6,247		
Steam/Hot Water		28,257	159,652	187,909	20,228	
e. Water Plants & Systems	KGAL 55,511,040	5,156	15,235	20,391	7,278	
f. Sewage Plants & Systems	KGAL 38,681,731	6,397	14,089	20,486	7,108	
g. Air Conditioning & Refrig	TONS 749,345	3,646	10,242	13,888	1,983	
h. Other		4,028	6,025	10,053	1,218	
<b>4. Other Engineering Support</b>						
a. Services		135,884	376,730	512,614	201,571	
b. Admin & Overhead		108,339	295,681	404,020	178,174	
c. Rentals, Leases & Easements		27,545	18,695	46,240	23,397	
			62,354	62,354		
<b>Grand Total</b>		663,720	2,211,214	2,874,934	826,113	



AIR FORCE - ACTIVE O&M  
REAL PROPERTY MAINTENANCE ACTIVITIES  
(Dollars in Millions)

Appropriation: O&M/Associated Military Personnel - FY 1990 Estimate

Function Category at Work Functions	Workload Data	Civilian Personnel	Other Non Pay	Total	Military Personnel (\$000)	EMAR
<b>Active Installations</b>						
1. Maintenance & Repair		498,656	995,317	1,493,973	574,005	1,335,700
a. Utilities		138,781	200,594	339,375	173,123	268,479
b. Other Real Property		359,875	794,723	1,154,598	400,882	1,067,221
(1) Buildings	KSF	266,343	504,161	770,504	291,402	562,327
(2) Other Facilities		13,264	24,746	38,010	17,576	126,898
(3) Pavements	KSY	47,071	239,917	286,988	49,389	360,635
(4) Land	AC	30,518	23,886	54,404	40,289	14,694
(5) Railroad Trackage	KLF	2,679	2,013	4,692	2,227	2,667
<b>2. Minor Construction</b>						
		12,883	96,244	109,127	20,767	
<b>3. Operation of Utilities</b>						
a. Electricity-Purchased	KWH	58,607	578,287	636,894	39,042	
b. Electricity-In House	KWH	7,396	346,032	346,032		
c. Heat-Purchased Steam/Water	MBTU		18,950	26,346	3,300	
d. Heat-In House Generated	MBTU		6,246	6,246		
Steam/Hot Water		30,474	163,074	193,548	19,119	
e. Water Plants & Systems	KGAL	5,561	15,637	21,198	6,879	
f. Sewage Plants & Systems	KGAL	6,900	14,375	21,275	6,718	
g. Air Conditioning & Refrig	TONS	3,932	10,519	14,451	1,874	
h. Other		4,344	3,454	7,798	1,151	
<b>4. Other Engineering Support</b>						
a. Services		148,687	399,465	548,152	196,874	
b. Admin & Overhead		118,547	313,852	432,399	174,023	
c. Rentals, Leases & Easements		30,140	20,209	50,349	22,851	
			65,404	65,404		
Grand Total	118	718,833	2,069,313	2,788,146	830,688	

AIR FORCE - ACTIVE O&M  
REAL PROPERTY MAINTENANCE ACTIVITIES  
(Dollars in Millions)

Appropriation: O&M/Associated Military Personnel - FY 1991 Estimate

Function Category at Work Functions	Workload Data	Civilian Personnel	Other Non Pay	Total	Military Personnel (\$000)	BMAR
<b>Active Installations</b>						
1. Maintenance & Repair		542,044	1,115,567	1,657,611	587,988	1,575,900
a. Utilities		150,857	225,690	376,547	177,340	316,760
b. Other Real Property		391,187	889,877	1,281,064	410,648	1,259,140
(1) Buildings	KSF	289,515	565,384	854,899	298,500	663,452
(2) Other Facilities		14,419	27,754	42,173	18,004	149,718
(3) Pavements	KSY	51,167	267,257	318,424	50,592	425,488
(4) Land	AC	33,174	27,189	60,363	41,270	17,336
(5) Railroad Trackage	KLF	2,912	2,293	5,205	2,282	3,146
2. Minor Construction		13,755	112,515	126,270	21,273	
3. Operation of Utilities		61,930	615,624	677,554	39,993	
a. Electricity-Purchased	KWH		367,953	367,953		
b. Electricity-In House	KWH	7,816	20,138	27,954	3,330	
c. Heat-Purchased Steam/Water	MBTU		6,603	6,603		
d. Heat-In House Generated	MBTU	32,202	173,516	205,718	19,585	
Steam/Hot Water						
e. Water Plants & Systems	KGAL	5,875	16,623	22,498	7,047	
f. Sewage Plants & Systems	KGAL	7,291	15,243	22,534	6,882	
g. Air Conditioning & Refrig	TONS	4,155	11,179	15,334	1,920	
h. Other		4,591	4,369	8,960	1,179	
4. Other Engineering Support						
a. Services		163,775	428,833	592,608	201,670	
b. Admin & Overhead		130,577	338,032	468,609	178,262	
c. Rentals, Leases & Easements		33,198	21,569	54,767	23,408	
Grand Total	119	781,504	2,272,539	3,054,043	850,924	

AIR FORCE - ACTIVE O&M  
REAL PROPERTY MAINTENANCE ACTIVITIES  
(Dollars in Millions)

Appropriation: Operations & Maintenance (3400)

BACKLOG OF MAINTENANCE AND REPAIR (BMAR) OF REAL PROPERTY

	FY 89	FY 90	FY 91
A. BACKLOG-BEGINNING OF YEAR (BACKLOG CARRIED FORWARD FROM PRIOR YEARS (MINUS BACKLOG MORE THAN FOUR YEARS OLD) (ADJUSTED BACKLOG CARRIED FORWARD) (INFLATION ADJUSTMENT) (FOREIGN CURRENCY REVALUATION)	\$869 \$0 \$869 \$37 \$0	\$1,040 \$0 \$1,040 \$44 \$0	\$1,327 \$0 \$1,327 \$56 \$0
B. REQUIREMENTS: (RECURRING MAINTENANCE & REPAIR) (MAJOR REPAIR PROJECTS) (BACKLOG DETERIORATION)	\$1,043 \$598 \$27	\$1,137 \$633 \$31	\$1,214 \$654 \$40
C. TOTAL REQUIREMENT	\$2,574	\$2,885	\$3,291
D. PROGRAM ADJUSTMENTS: (DIRECT PROGRAM FUNDING) (FUNDS MIGRATED FROM OTHERS AREAS) (NET OTHER ADJUSTMENTS)	\$1,534 \$0 \$0	\$1,494 \$55 \$0	\$1,658 \$57 \$0
E. BACKLOG AT END OF YEAR (C-D)	\$1,040	\$1,336	\$1,576
F. PERCENT BMAR CHANGE	19.7%	28.5%	18.8%

AIR FORCE - ACTIVE O&M  
 REAL PROPERTY MAINTENANCE ACTIVITIES  
 REAL PROPERTY MAINTENANCE AND MINOR CONSTRUCTION PROJECTS  
 (HISTORIC HOUSING COSTS)  
 (Dollars in Millions)

Appropriation: O&M, Military Family Housing (MFH)

PART I: HISTORIC HOUSING COST (MFH Appr)

	FY 90	FY 91
A. No. of Units: 236		
b. Improvements:		
C. Maintenance and Repair		To be provided

PART II: ALL OTHER HISTORIC BUILDINGS (O&M Appr)

A. No. of Facilities: 216		
B. Minor Construction:	749	597
C. Major Repair (over \$25,000.00):	7,438	3,478
D. Recurring Maintenance (\$25,000.00 or under):	212	233

O&M TOTAL: 8,399 4,308